

# Aspire 5535/5235 Series Service Guide

Service guide files and updates are available  
on the ACER/CSD web; for more information,  
please refer to <http://csd.acer.com.tw>

PRINTED IN TAIWAN

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## Revision History

Please refer to the table below for the updates made on Aspire 5535/5235 Series service guide.

Date	Chapter	Updates

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## Conventions

The following conventions are used in this manual:

<b>SCREEN MESSAGES</b>	Denotes actual messages that appear on screen.
<b>NOTE</b>	Gives bits and pieces of additional information related to the current topic.
<b>WARNING</b>	Alerts you to any damage that might result from doing or not doing specific actions.
<b>CAUTION</b>	Gives precautionary measures to avoid possible hardware or software problems.
<b>IMPORTANT</b>	Reminds you to do specific actions relevant to the accomplishment of procedures.

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## Preface

Before using this information and the product it supports, please read the following general information.

1. This Service Guide provides you with all technical information relating to the **BASIC CONFIGURATION** decided for Acer's "global" product offering. To better fit local market requirements and enhance product competitiveness, your regional office **MAY** have decided to extend the functionality of a machine (e.g. add-on card, modem, or extra memory capability). These **LOCALIZED FEATURES** will **NOT** be covered in this generic service guide. In such cases, please contact your regional offices or the responsible personnel/channel to provide you with further technical details.
2. Please note **WHEN ORDERING FRU PARTS**, that you should check the most up-to-date information available on your regional web or channel. If, for whatever reason, a part number change is made, it will not be noted in the printed Service Guide. For **ACER-AUTHORIZED SERVICE PROVIDERS**, your Acer office may have a **DIFFERENT** part number code to those given in the FRU list of this printed Service Guide. You **MUST** use the list provided by your regional Acer office to order FRU parts for repair and service of customer machines.



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# System Specifications

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## Features

Below is a brief summary of the computer's many features:

### Platform

AMD Better by Design program, featuring:

- AMD Turion™ X2 Ultra dual-core mobile processor (ATUZM 80/82 for Aspire 5535)
- AMD Turion™ X2 dual-core mobile processor (ATRM70/72 for Aspire 5535)
- AMD Athlon™ X2 dual-core mobile processor (AAQL60/62 for Aspire 5535)
- Mobile AMD Sempron™ processor (SMPSI4025W for Aspire 5235)
- AMD M780G chipset
- Intel® Wireless WiFi Link 5100/5300\*
- Acer InviLink™ Nplify™ 802.11b/g/Draft-N\*
- Acer InviLink™ 802.11b/g\*

### System Memory

- Dual-channel support
- Up to 2 GB of DDR2 667 MHz memory, upgradeable to 4 GB using two soDIMM modules\*

### Display and graphics

- 15.6" HD 1366 x 768
- ATI Radeon HD3200 Graphics (for discrete models only)\*

### Storage subsystem

- 2.5" hard disk drives
- Optical drive options:
  - DVD-Super Multi double-layer drive
- 5-in-1 card reader

### Special keys and controls

- 105-/106-key keyboard
- Touchpad pointing device
- Empowering Key
- Easy-launch buttons: WLAN, Volume Up, Volume Down and Bluetooth

### Audio

- Two built-in stereo speakers
- High-definition audio support
- MS-Sound compatible

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- Built-in microphone

## Communication

- Integrated Acer Crystal Eye webcam\*
- WLAN:
  - Acer InviLink™ Nplify™ 802.11b/g/Draft-N\*
  - Acer InviLink™ 802.11b/g\*
- WPAN: Bluetooth® 2.0+Enhanced Data Rate (EDR)\*
- LAN: Gigabit Ethernet; Wake-on-LAN ready
- Modem: 56K ITU V.92; Wake-on-Ring ready

## I/O Ports

- ExpressCard™ /54 slot
- 5-in-1 card reader (SD/MMC/MS/MS PRO/xD)
- Three USB 2.0 ports
- External display (VGA) port
- Headphones/speaker/line-out jack\*
- Microphone-in jack
- Line-in jack
- Ethernet (RJ-45) port
- Modem (RJ-11) port
- DC-in jack for AC adapter

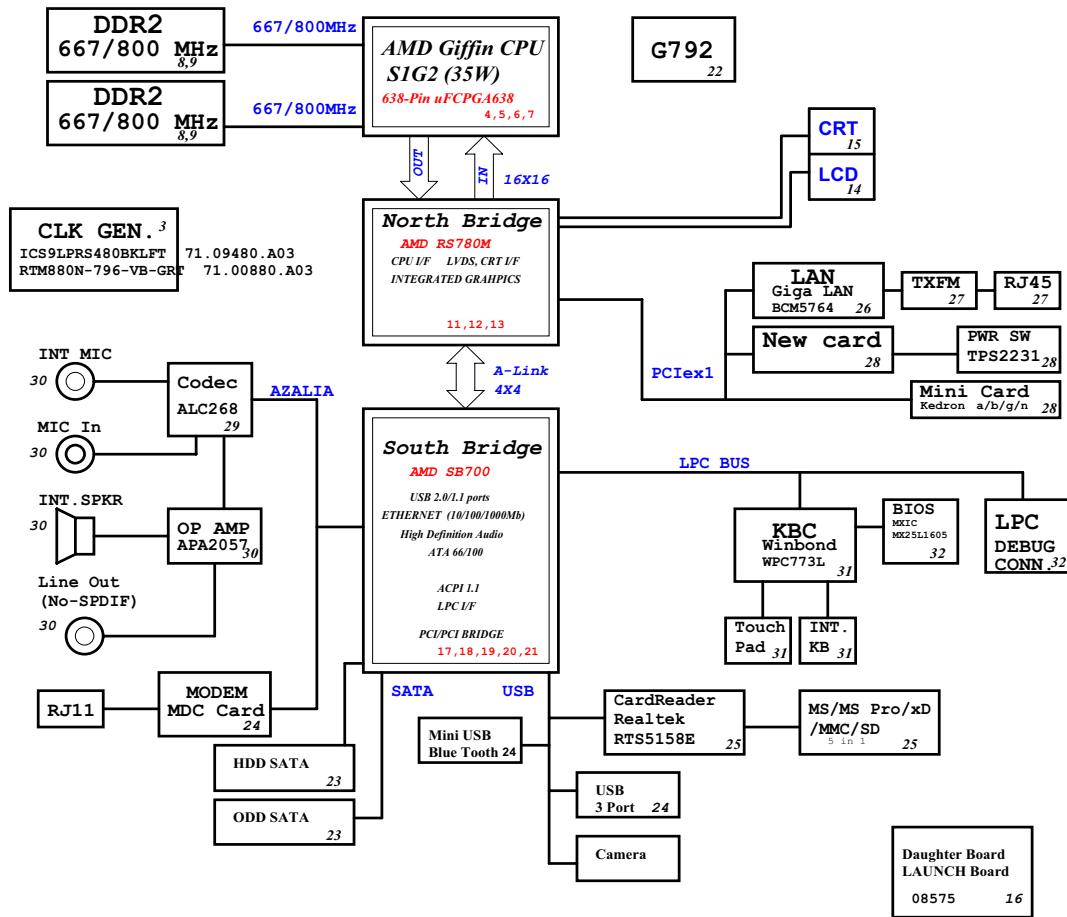
## Environment

- Temperature:
  - Operating: 5 °C to 35 °C
  - Non-operating: -20 °C to 65 °C
- Humidity (non-condensing):
  - Operating: 20% to 80%
  - Non-operating: 20% to 80%

**NOTE:** \*\* "Only for certain models"

**NOTE:** The specifications listed above are for reference only. The exact configuration of your PC depends on the model purchased.

# System Block Diagram



# Your Acer Notebook tour

After knowing your computer features, let us show you around your new computer.

## Front View



Icon	Item	Description
1	Acer Crystal Eye webcam	Web camera for video communication (only for certain models).
2	Display screen	Also called Liquid-Crystal Display (LCD), displays computer output.
3	Power button	Turns the computer on and off.
4	Empowering key	Launch Acer Empowering Technology
5	Keyboard	For entering data into your computer.
6	Touchpad	Touch-sensitive pointing device which functions like a computer mouse.
7/14	Status indicators	Light-Emitting Diodes (LEDs) that light up to show the status of the computer's functions and components.

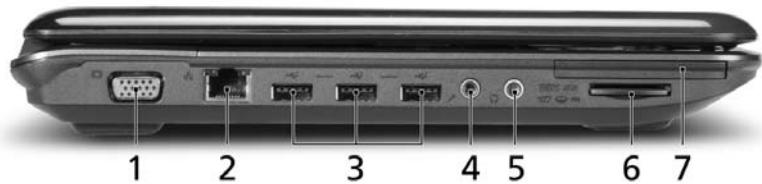
	Icon	Item	Description
8		Click buttons (left and right)	The left and right buttons function like the left and right mouse buttons.
9		Palmrest	Comfortable support area for your hands when you use the computer.
10		Speakers	Left and right speakers deliver stereo audio output.
11		Microphone	Internal microphone for sound recording.
12		Easy-launch buttons	Buttons for launching frequently used programs.
13	VOL+/VOL-	Volume up/Volume down	Increases the sound volume/Decreases the sound volume.

## Closed Front View



	Icon	Item	Description
1		Latch	Locks and releases the lid.

## Left View



#	Icon	Item	Description
1		External display (VGA) port	Connects to a display device (e.g., external monitor, LCD projector).
2		Ethernet (RJ-45) port	Connects to an Ethernet 10/100/1000-based network.
3		USB 2.0 ports	Connect to USB 2.0 devices (e.g., USB mouse, USB camera) (only for certain models).
4		Microphone-in jack	Accepts input from external microphones.
5		Headphones/speaker/line-out jack with S/PDIF support	Connects to audio line-out devices (e.g., speakers, headphones).
6		5-in-1 card reader	Accepts Secure Digital (SD), MultiMediaCard (MMC), Memory Stick (MS), Memory Stick PRO (MS PRO), xD-Picture Card (xD).
7	ExpressCard / 54	ExpressCard/54 slot	Accepts one ExpressCard/54 module.

## Right View



	Icon	Item	Description
1		Optical drive	Internal optical drive; accepts CDs or DVDs.
2		Optical disk access indicator	Lights up when the optical drive is active.
3		Optical drive eject button	Ejects the optical disk from the drive.

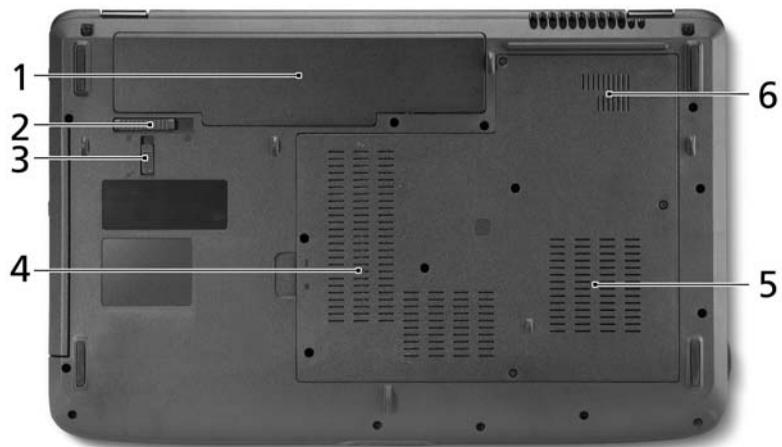
#	Icon	Item	Description
4		Emergency eject hole	Ejects the optical drive tray when the computer is turned off. <b>Note:</b> Insert a paper clip to the emergency eject hole to eject the optical drive tray when the computer is off.
5		Modem (RJ-11) port	Connects to a phone line.
6		DC-in jack	Connects to an AC adapter.
7		Kensington lock slot	Connects to a Kensington-compatible computer security lock.

## Rear View



#	Icon	Item	Description
1		Ventilation slots	Enable the computer to stay cool, even after prolonged use.

## Bottom View



	Icon	Item	Description
1		Battery bay	Houses the computer's battery pack.
2		Battery release latch	Releases the battery for removal.
3		Battery lock	Locks the battery in position.
4		Memory compartment	Houses the computer's main memory.
5		Hard disk bay	Houses the computer's hard disk (secured with screws).
6		Ventilation slots and cooling fan	Enable the computer to stay cool, even after prolonged use. <b>Note:</b> Do not cover or obstruct the opening of the fan.

## Indicators

The computer has several easy-to-read status indicators. The front panel indicators are visible even when the computer cover is closed.

Icon	Function	Description
	HDD	Indicates when the hard disk drive is active.
	Num Lock	Lights up when Num Lock is activated.
	Caps Lock	Lights up when Caps Lock is activated.
	Power	Indicates the computer's power status.
	Battery	Indicates the computer's battery status.

**NOTE:** 1. **Charging:** The light shows amber when the battery is charging. 2. **Fully charged:** The light shows green when in AC mode.

## Easy-Launch Buttons

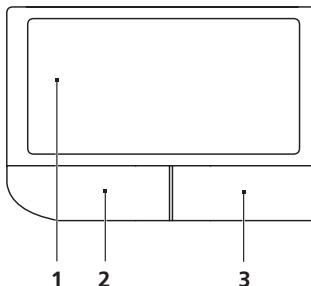
Located beside the keyboard are application buttons. These buttons are called easy-launch buttons. They are: WLAN, Internet, email, Bluetooth, Arcade and Acer Empowering Technology.

The mail and Web browser buttons are pre-set to email and Internet programs, but can be reset by users. To set the Web browser, mail and programmable buttons, run the Acer Launch Manager. You can access the Launch Manager by clicking on Start, All Programs, and then Launch Manager to start the application.

Icon	Function	Description
	Wireless communication button/indicator (manufacturing option)	Enables/disables the wireless function. Indicates the status of wireless LAN communication.
VOL+	Volume up	Increases the sound volume.
VOL-	Volume down	Decreases the sound volume.
	Bluetooth communication button/indicator (manufacturing option)	Enables/disables the Bluetooth function. Indicates the status of Bluetooth communication.
	Acer Empowering Technology	Launch Acer Empowering Technology (user-programmable)

## Touchpad basics (with two-click buttons)

The following items show you how to use the touchpad with two-click buttons.



- Move your finger across the touchpad (1) to move the cursor.
- Press the left (2) and right (3) buttons located beneath the touchpad to perform selection and execution functions. These two buttons are similar to the left and right buttons on a mouse. Tapping on the touchpad is the same as clicking the left button.

Function	Left button (2)	Right button (3)	Main touchpad (1)
Execute	Quickly click twice.		Tap twice (at the same speed as double-clicking a mouse button).
Select	Click once.		Tap once.
Drag	Click and hold, then use finger on the touchpad to drag the cursor.		Tap twice (at the same speed as double-clicking a mouse button); rest your finger on the touchpad on the second tap and drag the cursor.
Access context menu		Click once.	

**NOTE:** Illustrations for reference only. The exact configuration of your PC depends on the model purchased.

**NOTE:** When using the touchpad, keep it — and your fingers — dry and clean. The touchpad is sensitive to finger movement; hence, the lighter the touch, the better the response. Tapping harder will not increase the touchpad's responsiveness.

**NOTE:** By default, vertical and horizontal scrolling is enabled on your touchpad. It can be disabled under Mouse settings in Windows Control Panel.

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# Using the Keyboard

The keyboard has full-sized keys and an embedded numeric keypad, separate cursor, lock, Windows, function and special keys.

## Lock Keys and embedded numeric keypad

The keyboard has three lock keys which you can toggle on and off.

Lock key	Description
Caps Lock	When Caps Lock is on, all alphabetic characters typed are in uppercase.
Num Lock <b>&lt;Fn&gt; + &lt;F11&gt;</b>	When Num Lock is on, the embedded keypad is in numeric mode. The keys function as a calculator (complete with the arithmetic operators +, -, *, and /). Use this mode when you need to do a lot of numeric data entry. A better solution would be to connect an external keypad. <b>NOTE:</b> <Fn> + <F11> works only for certain models.
Scroll Lock <b>&lt;Fn&gt; + &lt;F12&gt;</b>	When Scroll Lock is on, the screen moves one line up or down when you press the up or down arrow keys respectively. Scroll Lock does not work with some applications.

The embedded numeric keypad functions like a desktop numeric keypad. It is indicated by small characters located on the upper right corner of the key caps. To simplify the keyboard legend, cursor-control key symbols are not printed on the keys.

Desired access	Num Lock on	Num Lock off
Number keys on embedded keypad	Type numbers in a normal manner.	
Cursor-control keys on embedded keypad	Hold <b>&lt;Shift&gt;</b> while using cursor-control keys.	Hold <b>&lt;Fn&gt;</b> while using cursor-control keys.
Main keyboard keys	Hold <b>&lt;Fn&gt;</b> while typing letters on embedded keypad.	Type the letters in a normal manner.

# Windows Keys

The keyboard has two keys that perform Windows-specific functions.

Key	Description
 Windows key	<p>Pressed alone, this key has the same effect as clicking on the Windows Start button; it launches the Start menu.</p> <p>It can also be used with other keys to provide a variety of functions:</p> <ul style="list-style-type: none"><li>&lt;&gt;: Open or close the Start menu</li><li>&lt;&gt; + &lt;D&gt;: Display the desktop</li><li>&lt;&gt; + &lt;E&gt;: Open Windows Explore</li><li>&lt;&gt; + &lt;F&gt;: Search for a file or folder</li><li>&lt;&gt; + &lt;G&gt;: Cycle through Sidebar gadgets</li><li>&lt;&gt; + &lt;L&gt;: Lock your computer (if you are connected to a network domain), or switch users (if you're not connected to a network domain)</li><li>&lt;&gt; + &lt;M&gt;: Minimizes all windows</li><li>&lt;&gt; + &lt;R&gt;: Open the Run dialog box</li><li>&lt;&gt; + &lt;T&gt;: Cycle through programs on the taskbar</li><li>&lt;&gt; + &lt;U&gt;: Open Ease of Access Center</li><li>&lt;&gt; + &lt;X&gt;: Open Windows Mobility Center</li><li>&lt;&gt; + &lt;BREAK&gt;: Display the System Properties dialog box</li><li>&lt;&gt; + &lt;SHIFT+M&gt;: Restore minimized windows to the desktop</li><li>&lt;&gt; + &lt;TAB&gt;: Cycle through programs on the taskbar by using Windows Flip 3-D</li><li>&lt;&gt; + &lt;SPACEBAR&gt;: Bring all gadgets to the front and select Windows Sidebar</li><li>&lt;CTRL&gt; + &lt;&gt; + &lt;F&gt;: Search for computers (if you are on a network)</li><li>&lt;CTRL&gt; + &lt;&gt; + &lt;TAB&gt;: Use the arrow keys to cycle through programs on the taskbar by using Windows Flip 3-D</li></ul> <p><b>Note:</b> Depending on your edition of Windows Vista, some shortcuts may not function as described.</p>
 Application key	This key has the same effect as clicking the right mouse button; it opens the application's context menu.

## Hot Keys

The computer employs hotkeys or key combinations to access most of the computer's controls like screen brightness, volume output and the BIOS utility.

To activate hot keys, press and hold the **<Fn>** key before pressing the other key in the hotkey combination.

Hotkey	Icon	Function	Description
<b>&lt;Fn&gt; + &lt;F1&gt;</b>	?	Hotkey help	Displays help on hotkeys.
<b>&lt;Fn&gt; + &lt;F2&gt;</b>		Acer eSettings	Launches Acer eSettings in Acer Empowering Technology.
<b>&lt;Fn&gt; + &lt;F3&gt;</b>		Acer ePower Management	Launches Acer ePower Management in Acer Empowering Technology.
<b>&lt;Fn&gt; + &lt;F4&gt;</b>		Sleep	Puts the computer in Sleep mode.
<b>&lt;Fn&gt; + &lt;F5&gt;</b>		Display toggle	Switches display output between the display screen, external monitor (if connected) and both.
<b>&lt;Fn&gt; + &lt;F6&gt;</b>		Screen blank	Turns the display screen backlight off to save power. Press any key to return.
<b>&lt;Fn&gt; + &lt;F7&gt;</b>		Touchpad toggle	Turns the internal touchpad on and off.
<b>&lt;Fn&gt; + &lt;F8&gt;</b>		Speaker toggle	Turns the speakers on and off.
<b>&lt;Fn&gt; + &lt;△&gt;</b>		Brightness up	Increases the screen brightness.
<b>&lt;Fn&gt; + &lt;▽&gt;</b>		Brightness down	Decreases the screen brightness.
<b>&lt;Fn&gt; + &lt;△&gt;</b>		Volume up	Increases the sound volume (only for certain models).
<b>&lt;Fn&gt; + &lt;▽&gt;</b>		Volume down	Decreases the sound volume (only for certain models).

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## Special Key (only for certain models)

You can locate the Euro symbol and the US dollar sign at the upper-center and/or bottom-right of your keyboard.

### The Euro symbol

1. Open a text editor or word processor.
2. Either press <€> at the bottom-right of the keyboard, or hold <Alt Gr> and then press the <5> key at the upper-center of the keyboard.

**NOTE:** Some fonts and software do not support the Euro symbol. Please refer to [www.microsoft.com/typography/faq/faq12.htm](http://www.microsoft.com/typography/faq/faq12.htm) for more information.

### The US dollar sign

1. Open a text editor or word processor.
2. Either press <\$> at the bottom-right of the keyboard, or hold <Shift> and then press the <4> key at the upper-center of the keyboard.

**NOTE:** This function varies according to the language settings.

# Acer Empowering Technology

The Empowering Technology toolbar makes it easy for you to access frequently used functions and manage your new Acer system. Activated by pressing the Empowering Key, it provides access to the following utilities:

**NOTE:** The following content is for general reference only. Actual product specifications may vary.

- **Acer eAudio Management** allows you to easily control the enhanced sound effects of Dolby Home Theater on your system (only for certain models).
- Acer ePower Management optimizes battery usage via customizable power plans.
- **Acer eDataSecurity Management** protects data with passwords and encryption (only for certain models).
- **Acer eRecovery Management** backs up and recovers data flexibly, reliably and completely.
- **Acer eSettings Management** accesses system information and adjusts settings easily.



For more information, right-click on the Empowering Technology toolbar, then select **Help**. For help with a particular utility, launch the utility and click the icon at the bottom of the active window.

## Launching Acer Empowering Technology

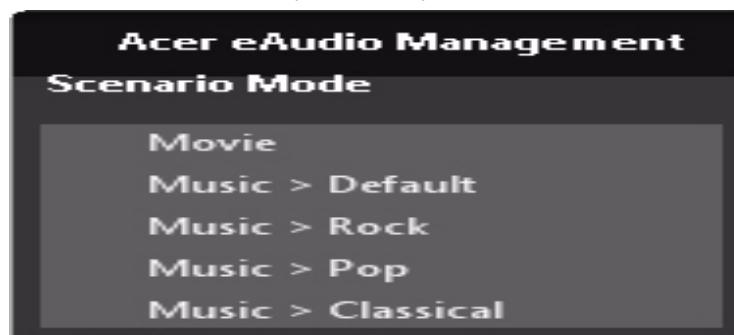
### To launch Acer Empowering Technology:

1. Press the Empowering Key to display the Acer Empowering Technology toolbar on the desktop.
2. To hide the toolbar, press the Empowering Key again or click the hide button on the toolbar.

You may also launch Acer Empowering Technology by running the program from the Acer Empowering Technology program group in the Start menu, or by double-clicking the icon if you have created a desktop shortcut.

### To launch Acer Empowering Technology applications:

1. On the Acer Empowering Technology toolbar, click the icon that corresponds to the application you want to launch.
2. When you mouse over an application icon, a quick menu appears below the toolbar. The quick menu allows you to perform certain tasks simply and quickly.



3. You may also run the application by selecting it from the Acer Empowering Technology program group in the Start menu.

**NOTE:** You may also double-click or right-click to run Acer eAudio Management, and right-click to run Acer ePower Management from the system tray.

# Empowering Technology password

You must set the Empowering Technology password to use the password protection feature of Acer eRecovery Management to protect your data.

## To set the Empowering Technology password:

1. Launch Acer eRecovery Management.
2. Click the Restore tab.
3. Click **Password settings**. The Empowering Technology Password Center dialogue box pops up.
4. Click **Create a new password**.



5. In the Create a New Password dialogue box, key in and confirm your password in the appropriate boxes. Your password should have a minimum of 4 and a maximum of 12 characters.
6. Enter a password hint that will help you remember your password.
7. Make sure the box **Use for Acer eRecovery Management** is checked.
8. Click **OK** to set the password.



## Acer eAudio Management (only for certain models)

Acer eAudio Management allows you to easily control the enhanced sound effects of Dolby Home Theater on your system. Select **Movie** or **Game** mode to experience the awesome realism of 5.1-channel audio output from the speakers fitted to your system via Dolby Surround sound technology. **Music** mode lets you enjoy your favorite tunes, in vivid detail.



To choose your playback device, click the  icon on the upper right side of the Acer eAudio Management window.



# Acer ePower Management

Acer ePower Management features a straightforward user interface for configuring your power management options. To access this utility, select **Acer ePower Management** from the Empowering Technology toolbar, run the program from the Acer Empowering Technology program group in Start menu, or right-click the Windows power icon in the system tray and select **Acer ePower Management**.

## Using power plans

Acer ePower Management comes with three predefined power plans: **Balanced**, **High performance** and **Power saver**.

View and adjust settings for **On Battery** and **Plugged In** modes by clicking the appropriate tabs. For more power options, click  in the Acer ePower Management utility, or right-click the Windows power icon in the system tray and select **Power Options**.

You can also create customized power plans. You can create, switch between, edit, delete and restore power plans, as described below.

### To create a new power plan:

Creating customized power plans allows you to save and quickly switch to a personalized set of power options.

1. Click the **New power plan** option or icon .
2. Enter a name for your new power plan.
3. Choose a predefined power plan to base your customized plan on.
4. If necessary, change the display, sleep and hibernation settings you want your computer to use.
5. Click **OK** to save your new power plan.

### To switch between power plans:

1. Move your mouse over the Acer ePower Management  application on the Acer Empowering Technology toolbar. The quick menu appears. Select the power plan you want to switch to.
2. You may also switch between power plans by launching the Acer ePower Management application. Select the power plan you wish to switch to, then click **Apply**.

### To edit a power plan:

Editing a power plan allows you to adjust system settings like LCD brightness, CPU speed and Graphics power mode (only for certain models).

1. Switch to the power plan you wish to edit.
2. Adjust settings as required.
3. Click **Apply** or **Save** to save your new settings.

**NOTE:** You can revert to the default settings of the predefined power plans by clicking the **Restore** button.

### To delete a power plan:

You cannot delete the power plan you are currently using. The active power plan will mark with  in upper left corner of power plan icon. If you want to delete the active power plan, switch to another one first.

1. Select the power plan you wish to delete.
2. Click the Delete this plan icon. 

**NOTE:** You cannot delete the predefined power plans, but you can modify the settings of the predefined power plans.

## Battery status

1. The quick menu shows the remaining battery life based on current usage.
2. You can also launch the Acer ePower Management application and refer to the Battery status panel located just below the power plans.
3. Click the Battery tab to view remaining battery life, battery status, and remaining battery life in standby and hibernate modes.



## Acer eDataSecurity Management (only for certain models)

Acer eDataSecurity Management is an encryption utility that protects your files from being accessed by unauthorized persons. It is conveniently integrated with Windows Explorer as a shell extension for quick data encryption/decryption and also supports on-the-fly file encryption for Lotus Notes and Microsoft Outlook.

On first use, the Acer eDataSecurity Management setup wizard will prompt you to create the Master Password. You will use this password to access the Personal Secure Disk (PSD). The Master Password may also be used to encrypt/decrypt files by default.

If you set a different password to encrypt a file, but you forgot the encryption password, you can use the Master Password to decrypt the file.



**NOTE:** The password used to encrypt a file is the unique key that the system needs to decrypt it. If you lose the password, the Master Password is the only other key capable of decrypting the file. If you lose both passwords, there will be no way to decrypt your encrypted file! **Be sure to safeguard all related passwords!**



## Acer eRecovery Management

Acer eRecovery Management is a versatile backup utility. It allows you to create full or incremental backups, burn the factory default image to optical disc, and restore from previously created backups or reinstall applications and drivers. By default, user-created backups are stored to the D:\ drive.

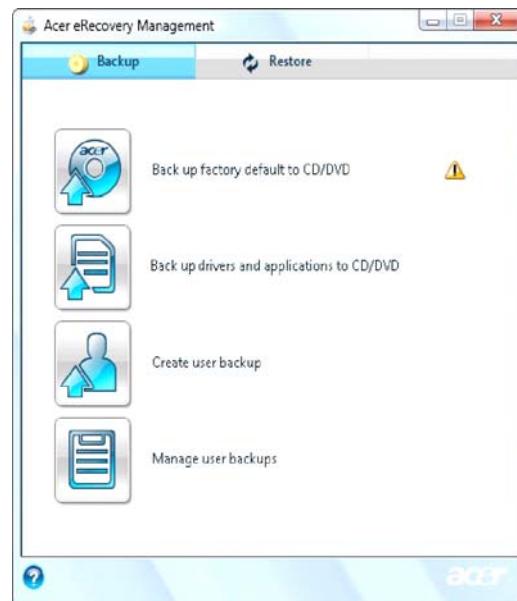
Acer eRecovery Management provides you with:

- Backup:

---

- Back up factory default to CD/DVD
- Back up drivers and applications to CD/DVD
- Create user backup
- Manage user backups
- Restore:
  - Restore system to factory default
  - Reinstall applications/drivers
  - Restore system from user backup
  - Password settings

To use the password protection feature of Acer eRecovery Management to protect your data, you must first set the Empowering Technology password. To set the password, refer to the section "**Empowering Technology password**".



**NOTE:** If your computer did not come with a Recovery CD or System CD, please use Acer eRecovery Management's Backup factory default to CD/DVD feature to burn a backup image to CD or DVD. To ensure the best results when recovering your system using a CD or Acer eRecovery Management, detach all peripherals (except the external Acer ODD, if your computer has one), including your Acer ezDock.

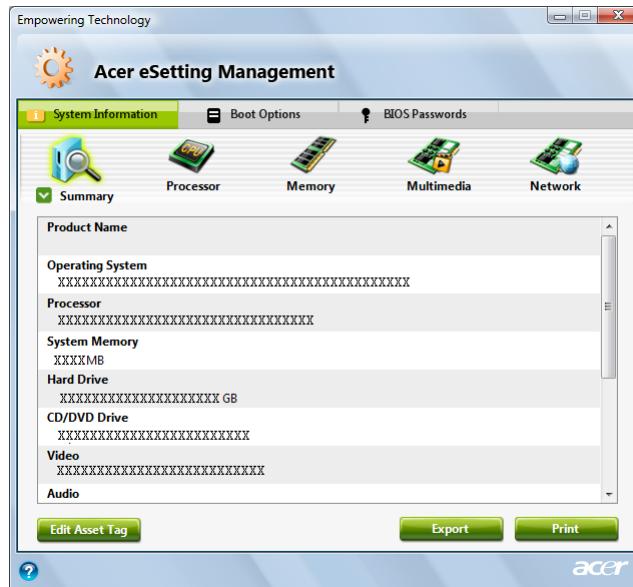
# Acer eSettings Management



Acer eSettings Management allows you to inspect hardware specifications, set BIOS passwords and modify boot options.

Acer eSettings Management also:

- Provides a simple graphical user interface for navigation.
- Prints and saves hardware specifications.
- Lets you set an asset tag for your system.



# Windows Mobility Center



The Windows Mobility Center collects key mobile-related system settings in one easy-to-find place, so you can quickly configure your Acer system to fit the situation as you change locations, networks or activities. Settings include display brightness, volume, power plan, wireless networking on/off, external display settings, synchronization status and presentation settings.

Windows Mobility Center also includes Acer-specific settings like sharing folders overview/sharing service on or off, Bluetooth Add Device (if applicable), and a shortcut to the Acer user guide, drivers and utilities.

To launch Windows Mobility Center:

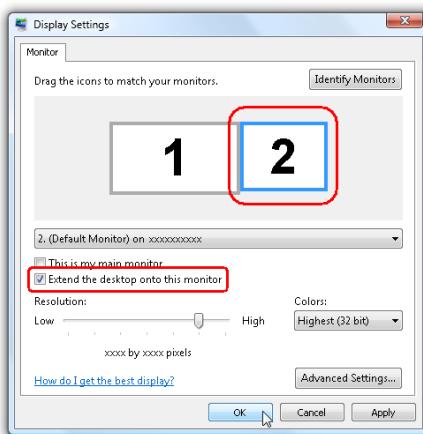
- q Use the shortcut key < + >.
- q Start Windows Mobility Center from the Control panel.
- q Start Windows Mobility Center from the Accessories program group in the Start menu.
- q Launch Windows Mobility Center by right-clicking  in the system tray and select **Windows Mobility Center**.

# Using the System Utilities

## Acer GridVista (dual-display compatible)

**NOTE:** This feature is only available on certain models.

To enable the dual monitor feature of the notebook, first ensure that the second monitor is connected, then select **Start**, **Control Panel**, **Display** and click on **Settings**. Select the secondary monitor (2) icon in the display box and then click the check box **Extend my windows desktop onto this monitor**. Finally, click **Apply** to confirm the new settings and click **OK** to complete the process.



Acer GridVista is a handy utility that offers four pre-defined display settings so you can view multiple windows on the same screen. To access this function, please go to **Start>All Programs** and click on **Acer GridVista**. You may choose any one of the four display settings indicated below:

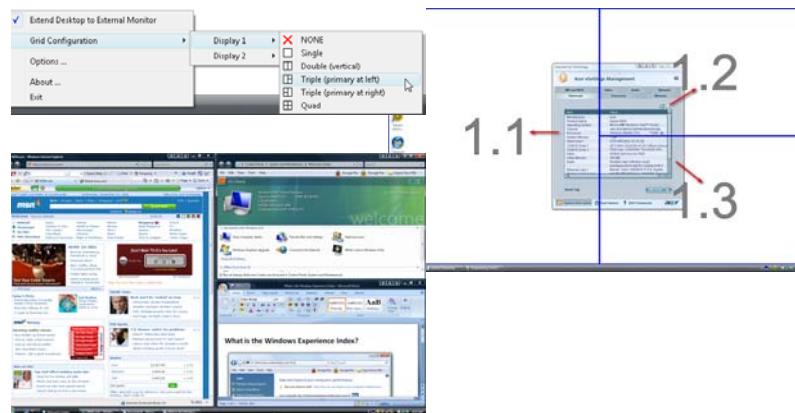


Double (vertical), Triple (primary at left), Triple (primary at right), or Quad Acer Gridvista is dual-display compatible, allowing two displays to be partitioned independently.

Acer Gridvista is dual-display compatible, allowing two displays to be partitioned independently.

AcerGridVista is simple to set up:

1. Run Acer GridVista and select your preferred screen configuration for each display from the task bar.
2. Drag and drop each window into the appropriate grid.
3. Enjoy the convenience of a well-organized desktop.



**NOTE:** Please ensure that the resolution setting of the second monitor is set to the manufacturer's recommended value.

# Hardware Specifications and Configurations

## Processor

CPU type	AMD Turion™ X2 Ultra dual-core mobile processor (ATUZM 80/82 for Aspire 5535) AMD Turion™ X2 dual-core mobile processor (ATRM70/72 for Aspire 5535) AMD Athlon™ X2 dual-core mobile processor (AAQL60/62 for Aspire 5535) Mobile AMD Sempron™ processor (SMPSI4025W for Aspire 5235)
Core logic	AMD M780G chipset
CPU package	Socket S1g2 638-pin uFCPGA638
CPU core voltage	1.0375V to 1.3V

## More details on processor

Item	Specification			
Marketing Name	AMD Turion™ X2 Ultra Dual-Core Mobile Processor	AMD Turion™ X2 Ultra Dual-Core Mobile Processor	AMD Athlon™ X2 Dual-Core Mobile Processor	Mobile AMD Sempron™ processor
Model No.	ZM-80/ZM-82	RM-70/RM-72	QL-60/QL-62	SI-40
Apply to notebook model	Aspire 5535	Aspire 5535	Aspire 5535	Aspire 5235
OPN Pib	N/A			
Operating Mode 32 Bit	Yes			
Operating Mode 64 Bit	Yes			
Core Count	2	2	2	1
Core Speed (MHz)	2100/2200	2000/2100	1900/2000	2000
System Bus Speed (MHz)	3600			
Wattage	32W/35W	31W/35W	35W/25W	25W
L2 Cache Size (KB)	2000	1000	1000	512
Process Technology	65nm SOI			

## CPU Fan True Value Table

DTS(degree C)	Fan Speed (rpm)	Acoustic Level (dBA)
45-50	0-3000	29

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### CPU Fan True Value Table

DTS(degree C)	Fan Speed (rpm)	Acoustic Level (dBA)
55-66	0-3300	33
68-74	3300-3800	38
78-83	3800-4100	40
86-91	4100-4800	40

Throttling 50%: On= 99° C; OFF=93° C

OS shut down at 105° C; H/W shut down at 110° C

### BIOS

Item	Specification
BIOS vendor	Phoenix
BIOS Version	1.04c

### System Memory

Item	Specification
Memory controller	Built-in
Memory size	0MB (no on-board memory)
DIMM socket number	2 sockets
Supports memory size per socket	2048MB
Supports maximum memory size	4G for 64bit OS (with two 2GB SODIMM)
Supports DIMM type	DDR 2 Synchronous DRAM
Supports DIMM Speed	667 MHz
Supports DIMM voltage	1.8V and 0.9V
Supports DIMM package	200-pin soDIMM
Memory module combinations	You can install memory modules in any combinations as long as they match the above specifications.

## Memory Combinations

Slot 1	Slot 2	Total Memory
0MB	512MB	512MB
0MB	1024MB	1024MB
0MB	2048MB	2048MB
512MB	512MB	1024MB
512MB	1024MB	1536MB
512MB	2048MB	2560MB
1024MB	0MB	1024MB
1024MB	512MB	1536MB
1024MB	1024MB	2048MB
1024MB	2048MB	3072MB
2048MB	0MB	2048MB
2048MB	512MB	2560MB
2048MB	1024MB	3072MB
2048MB	2048MB	4096MB

**NOTE:** Above table lists some system memory configurations. You may combine DIMMs with various capacities to form other combinations. On above table, the configuration of slot 1 and slot 2 could be reversed.

Item	Specification
LAN Chipset	BCM5764
Supports LAN protocol	10/100/1000 Mbps
LAN connector type	RJ45
LAN connector location	Left side
Features	Integrated 10/100 BASE-T transceiver Wake on LAN support compliant with ACPI 2.0 PCI v2.2

## Bluetooth Interface

Item	Specification
Chipset	Foxconn Bluetooth FOX_BRM_2.0 F/W 300 (built-in AMD SB700 on the main board)
Data throughput	723 bps (full speed data rate)
Protocol	Bluetooth 1.1 (Upgradeable to Bluetooth 1.2 when SIG specification is ratified).
Interface	USB 1.1
Connector type	USB

## Wireless Module 802.11b/g

Item	Specification
Chipset	WLAN 802.11ABGN SHIRLEYPEAK1*2 (built-in AMD RS780M on the main board)
Data throughput	11~54 Mbps, up to 270 Mbps for Draft-N

### Wireless Module 802.11b/g

Item	Specification
Protocol	802.11b+g, Draft-N
Interface	PCI bus (mini PCI socket for wireless module)

### Hard Disk Drive Interface

Item				
Vendor & Model Name	HGST HTS542512K9SA00 BRONCO-B LF SEAGATE ST9120817AS LF TOSHIBA MK1246GSX LF WD1200BEVS-22UST0 ML125 LF	WD1600BEVT-22ZCT0 HITACHI HTS541616J9SA00 LF SEAGATE SATA ST9160827AS TOSHIBA MK1646GSX LF	SEAGATE SATA ST9250827AS TOSHIBA MK2546GSX LF HGST HTS542525K9SA00 LF WD WD2500BEVS-22UST0 ML125	WD WD3200BEVT-22ZCT0 ML125
Capacity (MB)	120000	160000	250000	320000
Bytes per sector	512	512	512	N/A
Data heads	3	3/4	4	N/A
Drive Format				
Disks	2	2	2	N/A
Spindle speed (RPM)	5400 RPM	5400 RPM	5400 RPM	5400 RPM
Performance Specifications				
Buffer size	8MB	8MB	8MB	8MB
Interface	SATA	SATA	SATA	SATA
Max. media transfer rate (disk-buffer, Mbytes/s)	540	540	540	850
DC Power Requirements				
Voltage tolerance	5V(DC) +/- 5%	5V(DC) +/- 5%	5V(DC) +/- 5%	5V(DC) +/- 5%

### Optical Disc Drive

Item	Specification	
Vendor & model name	TOSHIBA SUPER-MULTI DRIVE DL 8X TS-L633A LF PIONEER SUPER-MULTI DRIVE 8X DVR-TD08RS LF PANASONIC SUPER-MULTI DRIVE DL 8X UJ-870A LF HLDs SUPER-MULTI DRIVE TRAY DL 8X GSA-T50N LF HLDs SUPER-MULTI DRIVE DL 8X GSA-T50N LF SONY SUPER-MULTI DRIVE DL 8X AD-7560S LF PLDs SUPER-MULTI DRIVE DL 8X DS-8A2S LF	
Performance Specification	With CD Diskette	With DVD Diskette

### Optical Disc Drive

Item	Specification	
Transfer rate (KB/sec)	Sustained: Max 3.6Mbytes/sec	Sustained: Max 10.08Mbytes/sec
Buffer Memory	2MB	
Interface	SATA	
Applicable disc format	Applicable disc format CD: CD-DA, CD-ROM, CD-ROM XA, Photo CD (multi-session), Video CD, Cd-Extra (CD+), CD-text DVD: DVD-VIDEO, DVD-ROM, DVD-R (3.9GB, 4.7GB) DVD-R DL, DVD-RW, DVD-RAM, DVD+R, DVD+R DL, DVD+RW CD: CD-DA (Red Book) - Standard Audio CD & CD-TEXT CD-ROM (Yellow Book Mode1 & 2) - Standard Data CD-ROM XA (Mode2 Form1 & 2) - Photo CD, Multi-Session CD-I (Green Book, Mode2 Form1 & 2, Ready, Bridge) CD-Extra/ CD-Plus (Blue Book) - Audio & Text/Video Video-CD (White Book) - MPEG1 Video CD-R (Orange Book Part) CD-RW & HSRW (Orange Book Part Volume1 & Volume 2) Super Audio CD (SACD) Hybrid type US & US+ RW DVD: DVD-ROM (Book 1.02), DVD-Dual DVD-Video (Book 1.1) DVD-R (Book 1.0, 3.9G) DVD-R (Book 2.0, 4.7G) - General & Authoring DVD+R (Version 1.0) DVD+RW DVD-RW (Non CPRM & CPRM) DVD"R Dual	
Loading mechanism	Load: Manual Release: (a) Electrical Release (Release Button) (b) Release by ATAPI command (c) Emergency Release	
Power Requirement		
Input Voltage	5 V +/- 5% (Operating)	

### Audio Interface

Item	Specification
Audio Controller	Realtek ALC268 Azalia and Amplifier APA2057
Audio onboard or optional	Built-in
Mono or Stereo	Stereo
Resolution	18 bit stereo full duplex
Compatibility	HD audio Interface; S/PDIF output for PCM or AC-3 content
Sampling rate	1Hz resolution VSR (Variable Sampling Rate)
Internal microphone	Yes

### Audio Interface

Item	Specification
Internal speaker / Quantity	Yes/2 (1.5W speakers)

### Video Memory

Item	Specification
Chipset	AMD RS780M (for UMA model)
Memory size	depends on setup setting

Item	Specification
Chipset	AMD RS780M
USB Compliancy Level	2.0
OHCI	USB 1.1 and USB 2.0 Host controller
Number of USB port	3
Location	Two on the right side/one on the front
Serial port function control	Enable/Disable by BIOS Setup

### System Board Major Chips

Item	Controller
Core logic	AMD RS780M+ AMD SB700
VGA	AMD RS780M
USB 2.0	AMD SB700
Super I/O controller	N/A
MODEM	ALC 268
Bluetooth	FOXCONN BCM2045 V2 (built-in AMD RS780M on the main board)
Wireless 802.11 b+g	WLAN 802.11ABGN SHIRLEYPEAK1*2 (built-in AMD RS780M on the main board)
PCMCIA/ 5 in 1 Card Reader	Realtec RTS5158E
Audio Codec	Audio Azalia(ALC268)

### Keyboard

Item	Specification
Keyboard controller	Winbond WPC773L
Total number of keypads	105/106-key
Windows logo key	Yes
Internal & external keyboard work simultaneously	Plug USB keyboard to the USB port directly: Yes

## Battery

Item	Specification
Vendor	Panasonic/Sanyo/Sony/Simplo
Battery Type	Li-ion
Pack capacity	6Cell 4400 MAH/8Cell 4800 MAH
Number of battery cell	6/8
Package configuration	3 cells in series, 2 series in parallel 4 cells in series, 2 series in parallel

## LCD 15.4" inch

Item	Specification
Vendor & model name	CMO/AUO/LG
Screen Diagonal (mm)	15.4 inches
Display resolution (pixels)	1280 x 800 WXGA
Pixel Pitch	0.204 x 0.204
Pixel Arrangement	R.G.B. Vertical Stripe
Display Mode	Normally White
Typical White Luminance (NIT) also called Brightness	220
Luminance Uniformity	1.25 max.
Contrast Ratio	400 typical
Response Time msec	8
Nominal Input Voltage VDD	+3.3V
Viewing Angle (degree) Horizontal: Right/Left Vertical: Upper/Lower	45/45 15/35
Temperature Range(° C) Operating Storage (shipping)	0 to +50 -40 to +60

## AC Adaptor

Item	Specification
Input	100-240V~ 1.5A, 50-60Hz/
Output	19V 4.74A 90W/19V 3.42A 65W

## System Power Management

ACPI mode	Power Management
Mech. Off (G3)	All devices in the system are turned off completely.
Soft Off (G2/S5)	OS initiated shutdown. All devices in the system are turned off completely.
Working (G0/S0)	Individual devices such as the CPU and hard disc may be power managed in this state.

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## System Power Management

ACPI mode	Power Management
Suspend to RAM (S3)	CPU set power down VGA Suspend PCMCIA Suspend Audio Power Down Hard Disk Power Down CD-ROM Power Down Super I/O Low Power mode
Save to Disk (S4)	Also called Hibernation Mode. System saves all system states and data onto the disc prior to power off the whole system.



# System Utilities

## BIOS Setup Utility

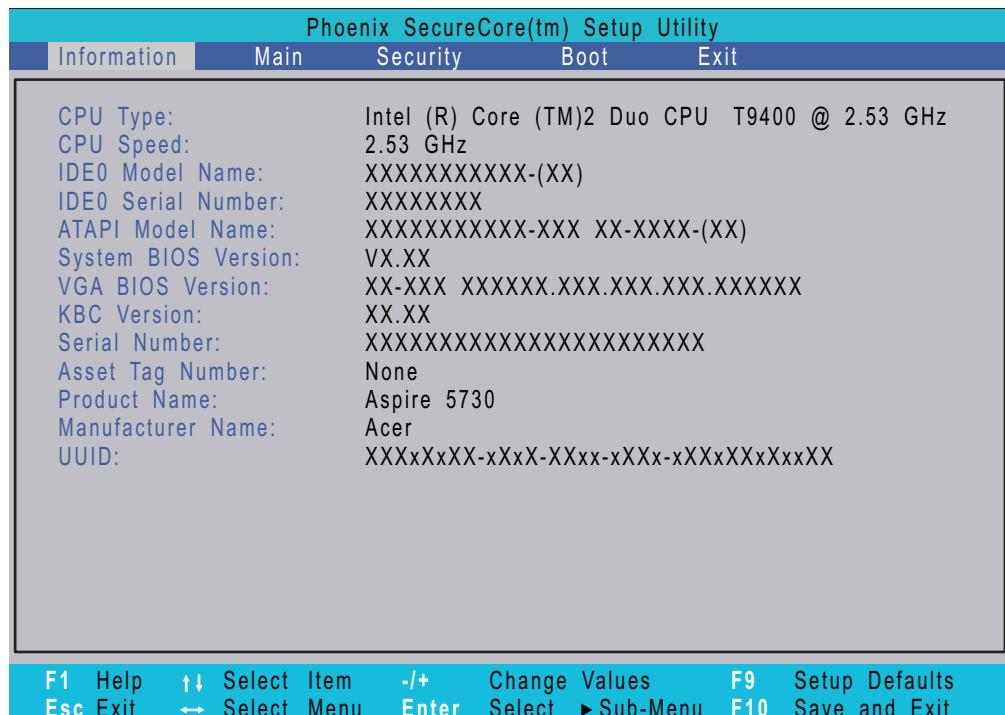
The BIOS Setup Utility is a hardware configuration program built into your computer's BIOS (Basic Input/Output System).

Your computer is already properly configured and optimized, and you do not need to run this utility. However, if you encounter configuration problems, you may need to run Setup. Please also refer to Chapter 4 Troubleshooting when problem arises.

To activate the BIOS Utility, press **F2** during POST (when “Press <F2> to enter Setup” message is prompted on the bottom of screen).

Press **F2** to enter setup. The default parameter of F12 Boot Menu is set to “disabled”. If you want to change boot device without entering BIOS Setup Utility, please set the parameter to “enabled”.

Press <F12> during POST to enter multi-boot menu. In this menu, user can change boot device without entering BIOS SETUP Utility.



**NOTE:** This mode is AMD platform. Please refer to an actual sample or finish good unit for real system information.

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## Navigating the BIOS Utility

There are five menu options: Information, Main, Security, Boot, and Exit.

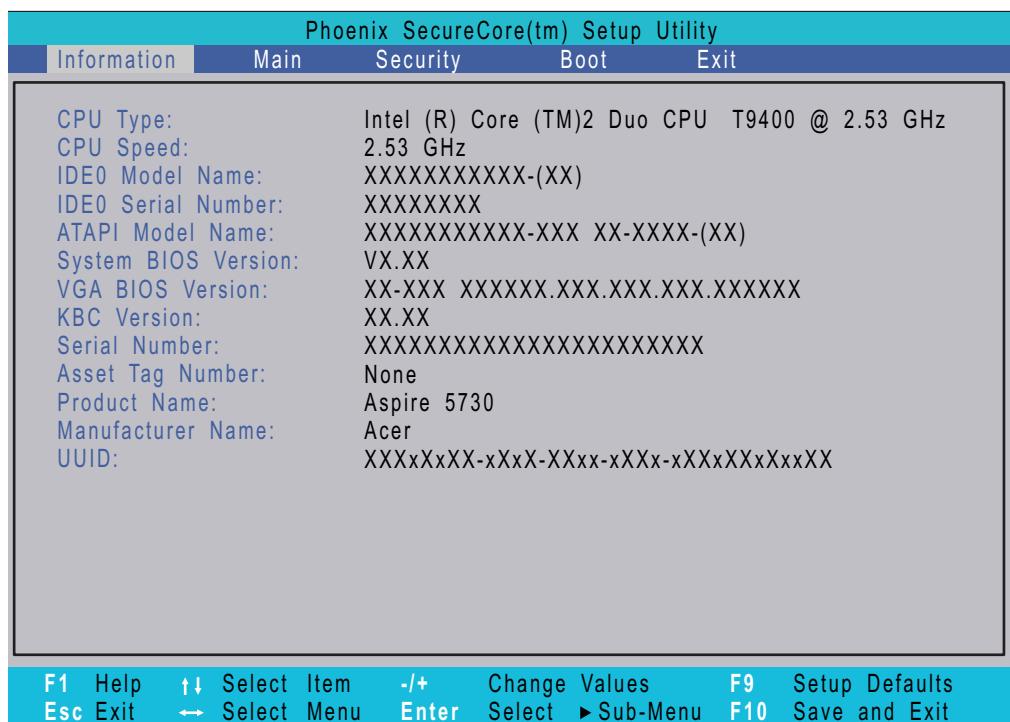
Follow these instructions:

- To choose a menu, use the left and right arrow keys.
- To choose an item, use the up and down arrow keys.
- To change the value of a parameter, press **F5** or **F6**.
- A plus sign (+) indicates the item has sub-items. Press **Enter** to expand this item.
- Press **Esc** while you are in any of the menu options to go to the Exit menu.
- In any menu, you can load default settings by pressing **F9**. You can also press **F10** to save any changes made and exit the BIOS Setup Utility.

**NOTE:** You can change the value of a parameter if it is enclosed in square brackets. Navigation keys for a particular menu are shown on the bottom of the screen. Help for parameters are found in the Item Specific Help part of the screen. Read this carefully when making changes to parameter values. **Please note that system information is subject to different models.**

## Information

The Information screen displays a summary of your computer hardware information.

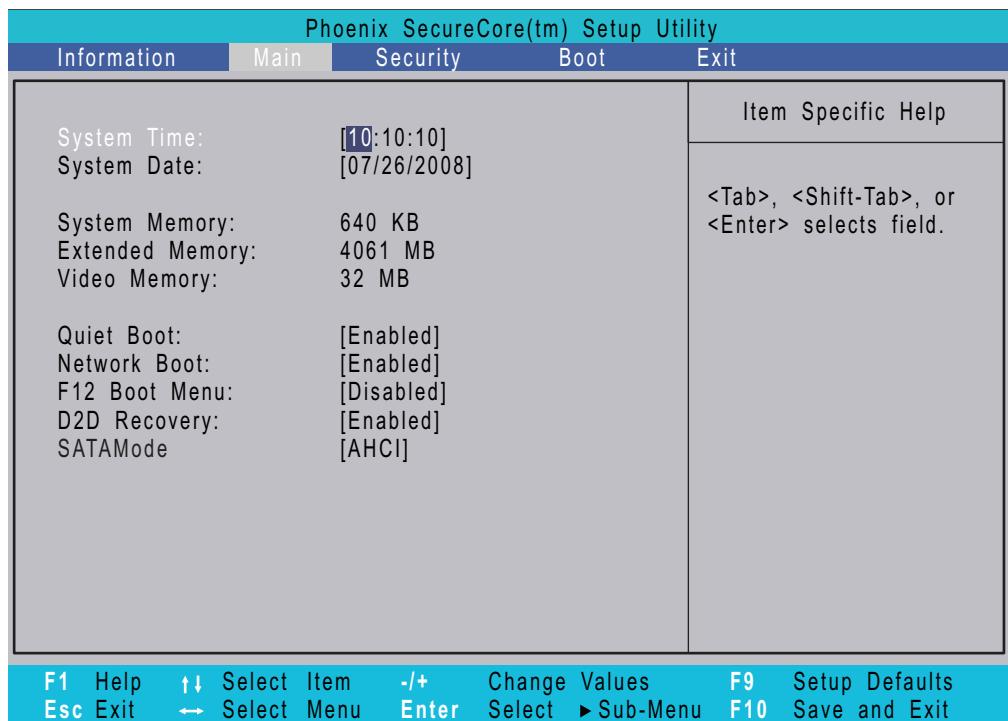


**NOTE:** The system information is subject to different models.

Parameter	Description
CPU Type	This field shows the CPU type and speed of the system.
CPU Speed	This field shows the speed of the CPU.
IDE0 Model Name	This field shows the model name of HDD installed on primary IDE master.
IDE0 Serial Number	This field displays the serial number of HDD installed on primary IDE master.
ATAPI Model Name	This field shows the model name of the Optical device installed in the system.
System BIOS Version	Displays system BIOS version.
VGA BIOS Version	This field displays the VGA firmware version of the system.
KBC Ver	This field shows the keyboard
Serial Number	This field displays the serial number of this unit.
Asset Tag Number	This field displays the asset tag number of the system.
Product Name	This field shows product name of the system.
Manufacturer Name	This field displays the manufacturer of this system.
UUID Number	Universally Unique Identifier (UUID) is an identifier standard used in software construction, standardized by the Open Software Foundation (OSF) as part of the Distributed Computing Environment (DCE).

## Main

The Main screen allows the user to set the system time and date as well as enable and disable boot option and recovery.



**NOTE:** The screen above is for your reference only. Actual values may differ.

The table below describes the parameters in this screen. Settings in **boldface** are the default and suggested parameter settings.

Parameter	Description	Format/Option
System Time	Sets the system time. The hours are displayed with 24-hour format.	Format: HH:MM:SS (hour:minute:second) System Time
System Date	Sets the system date.	Format MM/DD/YYYY (month/day/year) System Date
System Memory	This field reports the memory size of the system. Memory size is fixed to 640MB	
Extended Memory	This field reports the memory size of the extended memory in the system. Extended Memory size=Total memory size-1MB	
VGA Memory	Shows the VGA memory size.	
Quiet Boot	Determines if Customer Logo will be displayed or not; shows Summary Screen is disabled or enabled. Enabled: Customer Logo is displayed, and Summary Screen is disabled. Disabled: Customer Logo is not displayed, and Summary Screen is enabled.	Option: <b>Enabled</b> or Disabled
Network Boot	Enables, disables the system boot from LAN (remote server).	Option: <b>Enabled</b> or Disabled
F12 Boot Menu	Enables, disables Boot Menu during POST.	Option: <b>Disabled</b> or Enabled
D2D Recovery	Enables, disables D2D Recovery function. The function allows the user to create a hidden partition on hard disc drive to store operation system and restore the system to factory defaults.	Option: <b>Enabled</b> or Disabled
SATA Mode	Control the mode in which the SATA controller should operate.	Option: <b>AHCI</b> or IDE

**NOTE:** The sub-items under each device will not be shown if the device control is set to disable or auto. This is because the user is not allowed to control the settings in these cases.

## Security

The Security screen contains parameters that help safeguard and protect your computer from unauthorized use.

Phoenix SecureCore(tm) Setup Utility				
Information	Main	Security	Boot	Exit
<p>Supervisor Password is: Clear User Password is: Clear HDD Password is: Clear</p> <p>Set Supervisor Password [Enter] Set User Password [Enter] Set HDD Password [Enter]</p> <p>Password on Boot: [Disabled]</p>				Item Specific Help
Supervisor Password controls access of the whole setup utility. It can be used to boot up when Password on boot is enabled.				

**NOTE:** Please refer to “Remove HDD/BIOS Password” section if you need to know how to remove HDD/BIOS Password.

The table below describes the parameters in this screen. Settings in **boldface** are the default and suggested parameter settings.

Parameter	Description	Option
Supervisor Password Is	Shows the setting of the Supervisor password	<b>Clear</b> or Set
User Password Is	Shows the setting of the user password.	<b>Clear</b> or Set
HDD Password Is	Shows the setting of the hard disk password.	<b>Clear</b> or Set
Set Supervisor Password	Press Enter to set the supervisor password. When set, this password protects the BIOS Setup Utility from unauthorized access. The user can not either enter the Setup menu nor change the value of parameters.	
Set User Password	Press Enter to set the user password. When user password is set, this password protects the BIOS Setup Utility from unauthorized access. The user can enter Setup menu only and does not have right to change the value of parameters.	
Set HDD Password	Enter HDD Password.	
Password on Boot	Defines whether a password is required or not while the events defined in this group happened. The following sub-options are all requires the Supervisor password for changes and should be grayed out if the user password was used to enter setup.	<b>Disabled</b> or Enabled

**NOTE:** When you are prompted to enter a password, you have three tries before the system halts. Don't forget your password. If you forget your password, you may have to return your notebook computer to your dealer to reset it.

## Setting a Password

Follow these steps as you set the user or the supervisor password:

1. Use the "w" and "y" keys to highlight the Set Supervisor Password parameter and press the **e** key. The Set Supervisor Password box appears:

Set Supervisor Password	
Enter New Password	[ ]
Confirm New Password	[ ]

2. Type a password in the "Enter New Password" field. The password length can not exceed 8 alphanumeric characters (A-Z, a-z, 0-9, not case sensitive). Retype the password in the "Confirm New Password" field.

**IMPORTANT:** Be very careful when typing your password because the characters do not appear on the screen.

3. Press **e**.  
After setting the password, the computer sets the User Password parameter to "Set".
4. If desired, you can opt to enable the Password on boot parameter.
5. When you are done, press **u** to save the changes and exit the BIOS Setup Utility.

## Removing a Password

Follow these steps:

1. Use the w and y keys to highlight the Set Supervisor Password parameter and press the e key. The Set Password box appears:

Set Supervisor Password		
Enter current password	[	]
Enter New Password	[	]
Confirm New Password	[	]

2. Type the current password in the Enter Current Password field and press e.
3. Press e twice **without** typing anything in the Enter New Password and Confirm New Password fields. The computer then sets the Supervisor Password parameter to “Clear”.
4. When you have changed the settings, press u to save the changes and exit the BIOS Setup Utility.

## Changing a Password

1. Use the w and y keys to highlight the Set Supervisor Password parameter and press the e key. The Set Password box appears:

Set Supervisor Password		
Enter current password	[	]
Enter New Password	[	]
Confirm New Password	[	]

2. Type the current password in the Enter Current Password field and press e.
3. Type a password in the Enter New Password field. Retype the password in the Confirm New Password field.
4. Press e. After setting the password, the computer sets the User Password parameter to “Set”.
5. If desired, you can enable the Password on boot parameter.
6. When you are done, press u to save the changes and exit the BIOS Setup Utility.

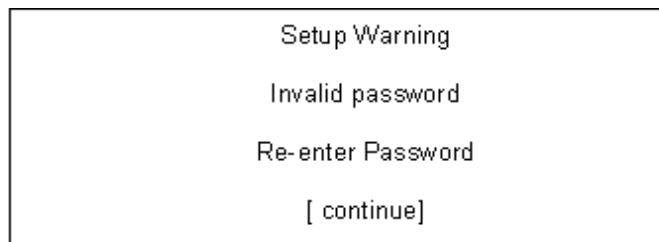
If the verification is OK, the screen will display as following.

Setup Notice		
Changes have been saved.		
[ continue]		

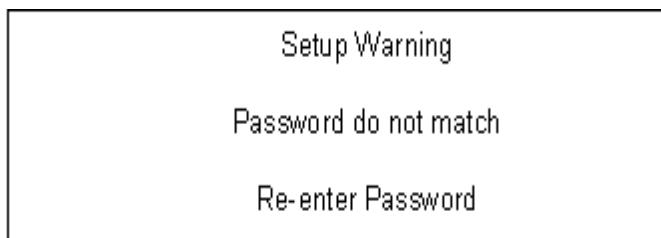
The password setting is complete after the user presses u.

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If the current password entered does not match the actual current password, the screen will show you the Setup Warning.



If the new password and confirm new password strings do not match, the screen will display the following message.



## Boot

This menu allows the user to decide the order of boot devices to load the operating system. Bootable devices includes the diskette drive in module bay, the onboard hard disk drive and the CD-ROM in module bay.

Phoenix SecureCore(tm) Setup Utility				
Information	Main	Security	Boot	Exit
Boot priority order:				Item Specific Help
<ol style="list-style-type: none"><li>1: IDE HDD: XXXXXXXXXXXX-(XX)</li><li>2: IDE CD: XXXXXXXXXXXX-XXX XX-XXXX-XX</li><li>3: PCI LAN: Network Boot</li><li>4: USB HDD:</li><li>5: USB FDD:</li><li>6: USB Key:</li><li>7: USB CDROM:</li></ol>				Use <b>&lt;↑&gt;</b> or <b>&lt;↓&gt;</b> to select a device, then press <b>&lt;F6&gt;</b> to move it up the list, or <b>&lt;F5&gt;</b> to move it down the list. Press <b>&lt;Esc&gt;</b> to escape the menu.

**F1** Help    **↑** Select Item    **-/+** Change Values    **F9** Setup Defaults  
**Esc** Exit    **↔** Select Menu    **Enter** Select    **►** Sub-Menu    **F10** Save and Exit

## Exit

The Exit screen contains parameters that confirmed or discard the changes made to the parameters in the BIOS Setup Utility.

Phoenix SecureCore(tm) Setup Utility				
Information	Main	Security	Boot	Exit
<p>Exit Saving Changes Exit Discarding Changes Load Setup Defaults Discard Changes Save Changes</p>				Item Specific Help
				Exit System Setup and save your changes to CMOS.

**F1** Help    **↑** Select Item    **-/+** Change Values    **F9** Setup Defaults  
**Esc** Exit    **↔** Select Menu    **Enter** Select    **▶** Sub-Menu    **F10** Save and Exit

The table below describes the parameters in this screen.

Parameter	Description
Exit Saving Changes	Exit System Setup and save your changes to CMOS.
Exit Discarding Changes	Exit utility without saving setup data to CMOS.
Load Setup Default	Load default values for all SETUP item.
Discard Changes	Load previous values from CMOS for all SETUP items.
Save Changes	Save Setup Data to CMOS.

---

# BIOS Flash Utility

The BIOS flash memory update is required for the following conditions:

- New versions of system programs
- New features or options
- Restore a BIOS when it becomes corrupted.

Use the Flash utility to update the system BIOS flash ROM.

**NOTE:** If you do not have a crisis recovery diskette at hand, then you should create a **Crisis Recovery Diskette** before you use the Flash utility.

**NOTE:** Do not install memory-related drivers (XMS, EMS, DPMI) when you use the Flash.

**NOTE:** Please use the AC adaptor power supply when you run the Flash utility. If the battery pack does not contain enough power to finish BIOS flash, you may not boot the system because the BIOS is not completely loaded.

Fellow the steps below to run the Flash.

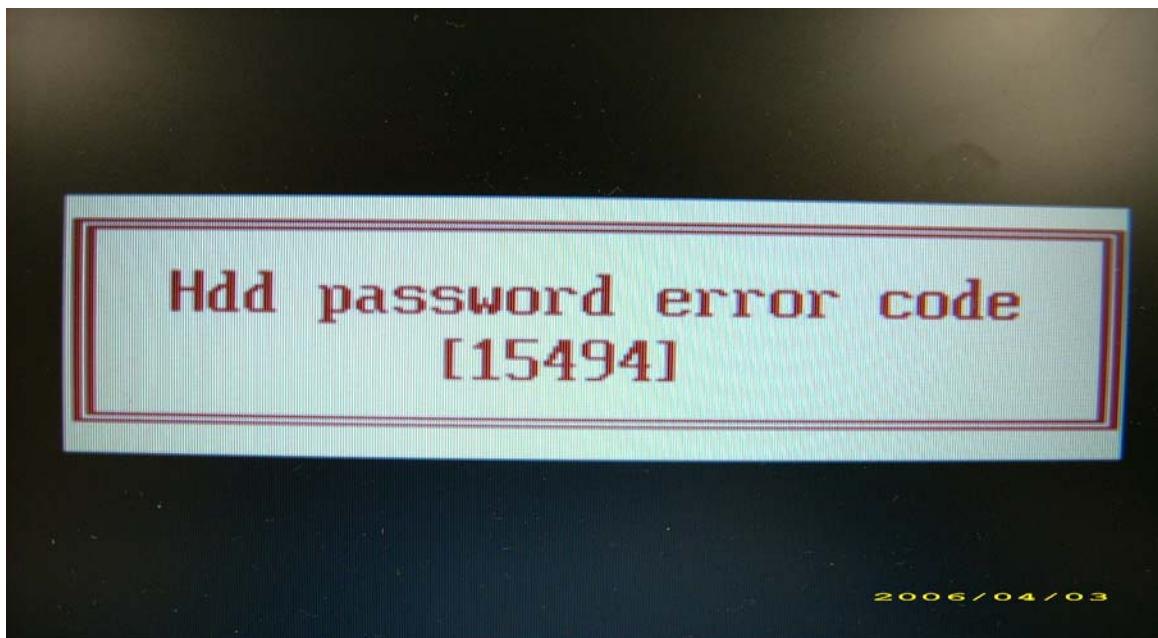
1. Prepare a bootable diskette.
2. Copy the flash utilities to the bootable diskette.
3. Then boot the system from the bootable diskette. The flash utility has auto-execution function.

# Remove HDD/BIOS Utility

This section provide you with removing HDD/BIOS method:

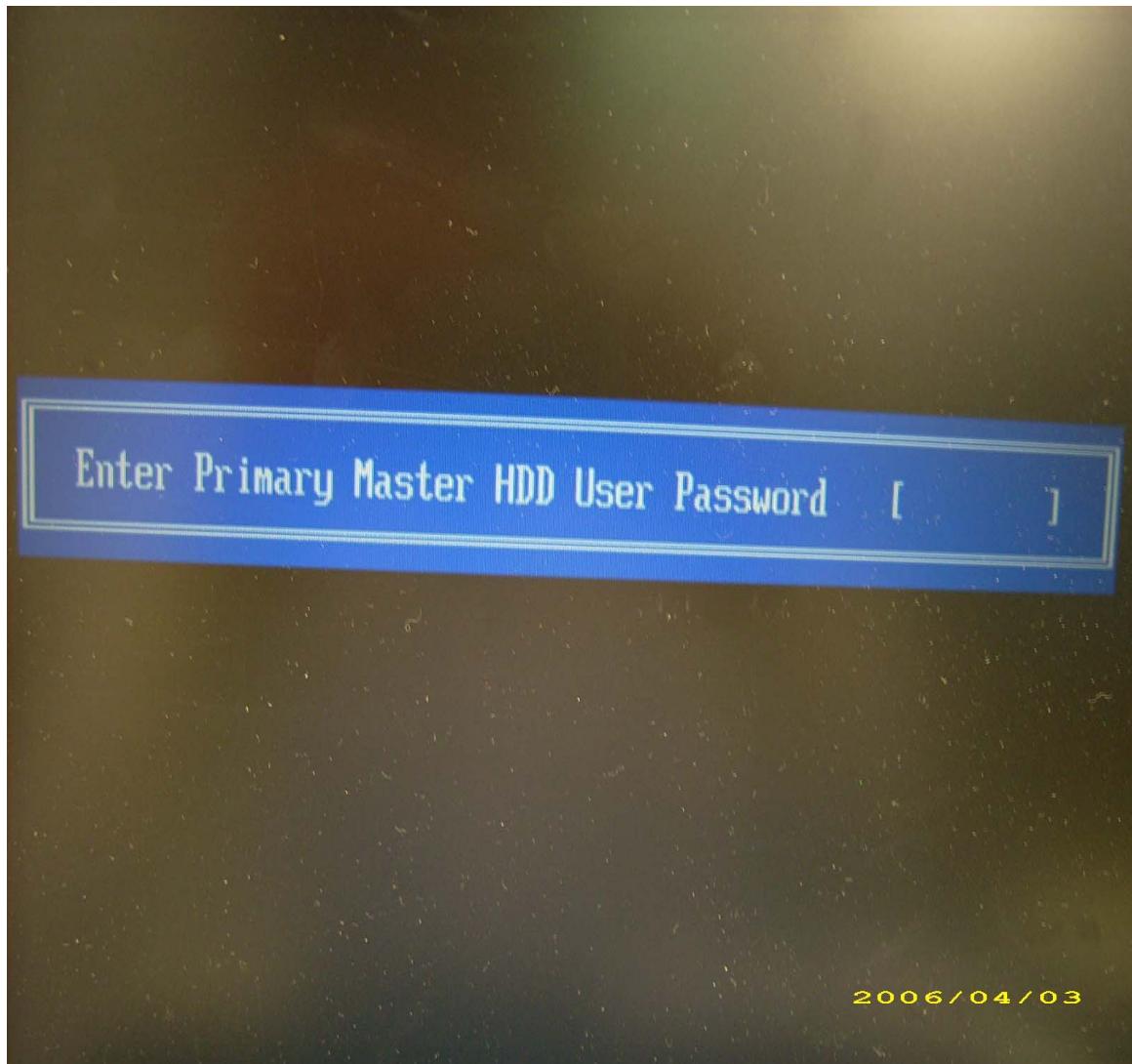
## Remove HDD Password:

- If you key in wrong HDD password for three time, “HDD password error code” would display on the screen. See the image below.



- If you need to solve HDD password locked problem, you can run HDD\_PW.EXE
- 1. Key in “hdd\_pw 15494 0”
- 2. Select “2”
- 3. Choose one upper-case string

- Reboot system and key in “OKJFN42” or “UVEIQ96” to HDD user password.



# Machine Disassembly and Replacement

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This chapter contains step-by-step procedures on how to disassemble the notebook computer for maintenance and troubleshooting.

## Disassembly Requirements

To disassemble the computer, you need the following tools:

- Wrist grounding strap and conductive mat for preventing electrostatic discharge
- Flat screwdriver
- Philips screwdriver
- Hex screwdriver
- Plastic flat screwdriver
- Plastic tweezers

**NOTE:** The screws for the different components vary in size. During the disassembly process, group the screws with the corresponding components to avoid mismatch when putting back the components.

# General Information

## Pre-disassembly Instructions

Before proceeding with the disassembly procedure, make sure that you do the following:

1. Turn off the power to the system and all peripherals.
2. Unplug the AC adapter and all power and signal cables from the system.



3. Place the system on a flat, stable surface.
4. Remove the battery pack.

## Disassembly Process

The disassembly process is divided into the following stages:

- External module disassembly
- Main unit disassembly
- LCD module disassembly

The flowcharts provided in the succeeding disassembly sections illustrate the entire disassembly sequence. Observe the order of the sequence to avoid damage to any of the hardware components. For example, if you want to remove the main board, you must first remove the keyboard, then disassemble the inside assembly frame in that order.

### Main Screw List

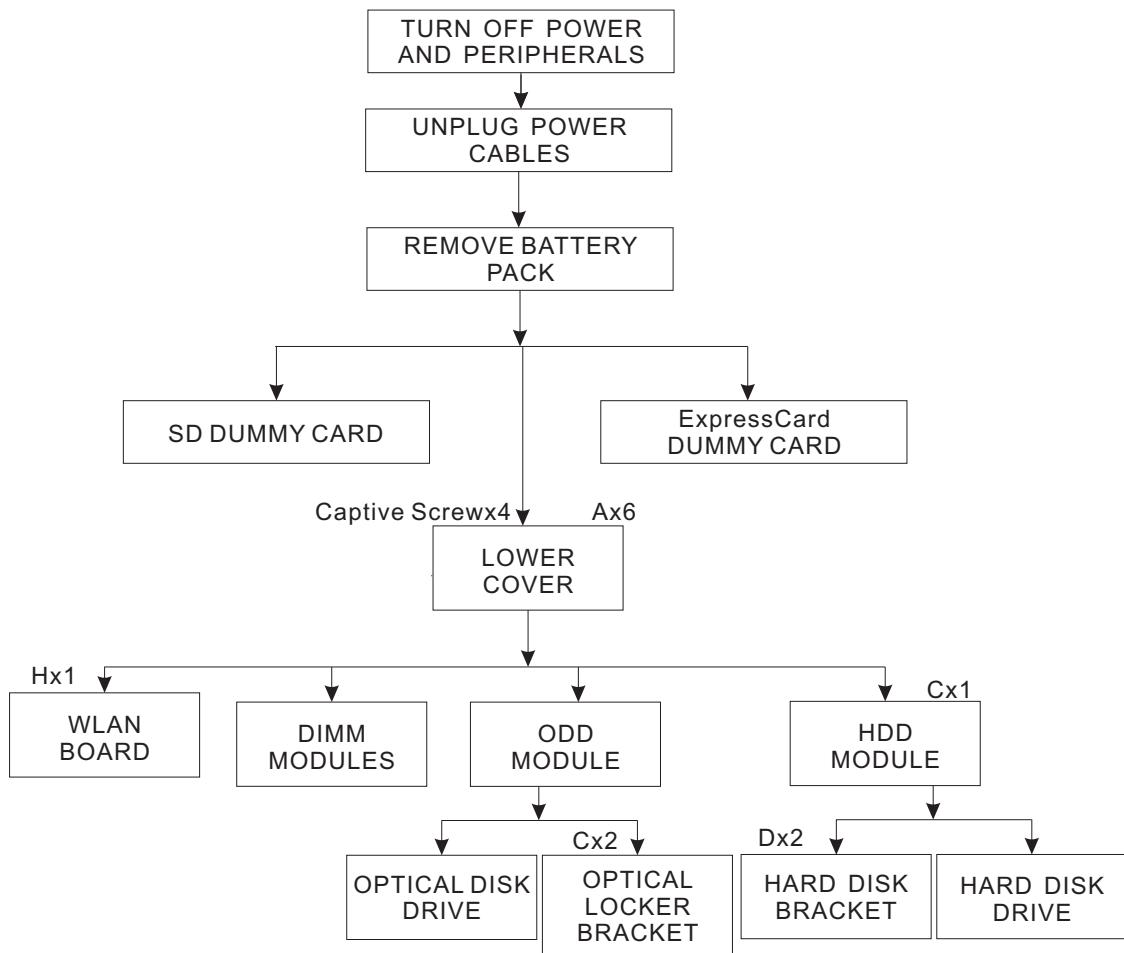
Item	Screw	Color	Part No.
A	M2 x L8	Black	86.00E34.738
B	M2.5 x L6	Black	86.00E12.536
C	M2 x L3	Silver	86.9A522.3R0
D	M3 x L4	Silver	86.9A524.4R0
E	M2.5 x L10	Silver	86.00F84.73A
F	M2 x L4	Silver	86.00C07.220
G	M2 x L4	Black	86.00A02.140
H	M2 x L3	Black	86.9A552.3R0

# External Module Disassembly Process

## External Modules Disassembly Flowchart

The flowchart below gives you a graphic representation on the entire disassembly sequence and instructs you on the components that need to be removed during servicing. For example, if you want to remove the main board, you must first remove the keyboard, then disassemble the inside assembly frame in that order.

### EXTERNAL MODULE DISASSEMBLY



### Screw List

Item	Screw	Color	Part No.
A	M2 x L8	Black	86.00E34.738
C	M2 x L3	Silver	86.9A522.3R0
D	M3 x L4	Silver	86.9A524.4R0
H	M2 x L3	Black	86.9A552.3R0

## Removing the Battery Pack

1. Turn base unit over.
2. Slide the battery lock/unlock latch to the unlock position.



3. Slide the battery release latch to the release position to pop out the battery pack, then remove the battery pack from the main unit.



## Removing the SD dummy card

1. Push the SD dummy card all the way in to eject it.



2. Pull it out from the slot.



## Removing the ExpressCard dummy card

1. Push the ExpressCard dummy card all the way in to eject it.



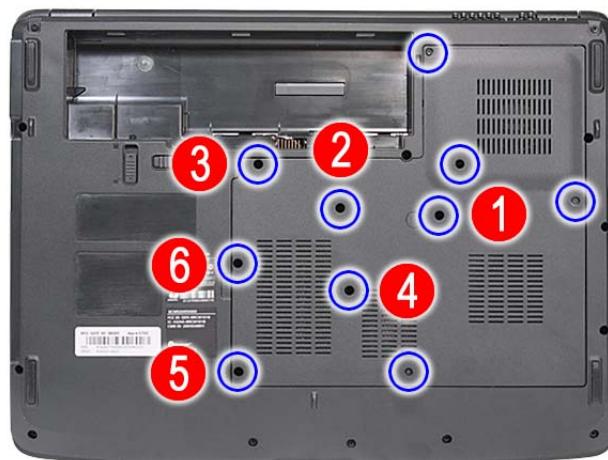
---

2. Pull it out from the slot.



## Removing the Lower Cover

1. See "Removing the Battery Pack" on page 50.
2. Remove the four captive screws and the six screws (A) on the lower cover.



Step	Size (Quantity)	Color	Torque
1~6	M2.5 x L8 (6)	Black	3.0 kgf-cm

---

3. Use a plastic screw driver to carefully pry open the lower cover.

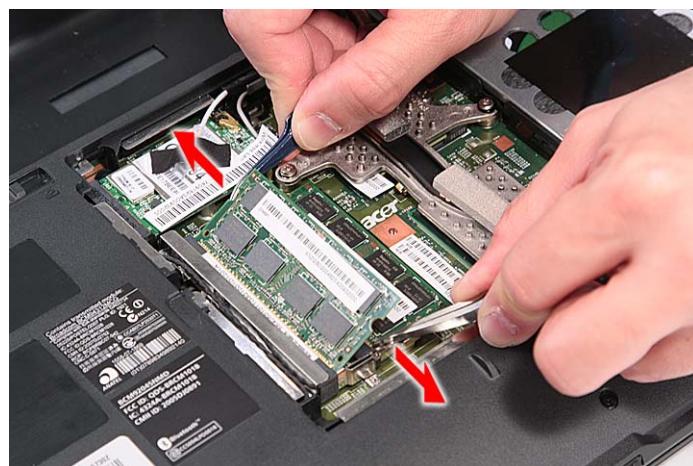


4. Remove the lower cover from the lower case.



## Removing the DIMM

1. See “Removing the Battery Pack” on page 50.
2. See “Removing the Lower Cover” on page 52..
3. Push out the latches on both sides of the DIMM socket to release the DIMM.



---

4. Remove the DIMM module.



## Removing the WLAN Board Modules

1. See "Removing the Battery Pack" on page 50.
2. See "Removing the Lower Cover" on page 52.
3. Remove the white antenna cable that is taped to the WLAN board module.



---

4. Disconnect the antenna cables from the WLAN board.



**NOTE:** There are 2 antenna cables connected to the WLAN board module. The Black antenna cable is connected to the MAIN connector and the Gray antenna cable is connected to the AUX connector.

5. Move the antenna away from the WLAN board and remove the one screw (H) on the WLAN board to release the WLAN board.



Step	Size (Quantity)	Color	Torque
1	M2 x L3 (1)	Black	1.6 kgf-cm

---

6. Detach the WLAN board from the WLAN socket.



**NOTE:** When attaching the antenna back to the WLAN board, make sure the cable are arranged properly.

## Removing the Hard Disk Drive Module

1. See “Removing the Battery Pack” on page 50.
2. See “Removing the Lower Cover” on page 52.
3. Remove the one screw (C) securing the hard disk drive module.



Step	Size (Quantity)	Color	Torque
1	M2 x L3 (1)	Silver	1.6 kgf-cm

---

4. Slide the hard disk drive module away from the connector.



5. Lift the hard disk drive module and remove it from the hard disk drive bay.



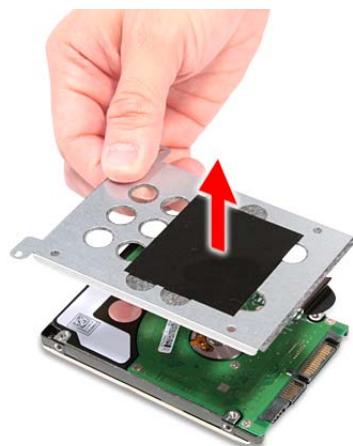
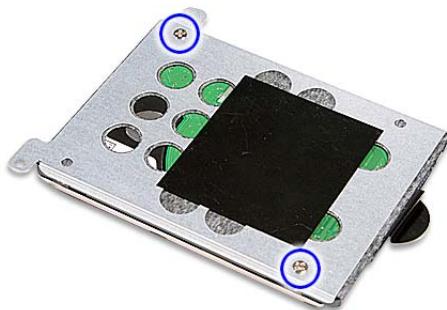
**NOTE:** To prevent damage to device, avoid pressing down on it or placing heavy objects on top of it.

6. Remove the two adhesive tape covering the two screws.



---

7. Remove the two screws (D) securing the hard disk to the bracket and remove the hard disk from the bracket.



Step	Size (Quantity)	Color	Torque
1~2	M3 x L4 (2)	Silver	3.0 kgf-cm

## Removing the Optical Drive Module

1. See “Removing the Battery Pack” on page 50.
2. See “Removing the Lower Cover” on page 52.

---

3. Use a pin and push it inside the emergency eject hole to eject the odd drive tray.



4. Carefully pull out the odd drive tray until the part of the module is visible and then slowly push back to close the tray into the module with the module still partially exposed.



5. Slowly pull out the odd module from the odd drive bay.



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6. Remove the two screws (C) securing the locker bracket and remove the locker bracket from the optical disk drive module.

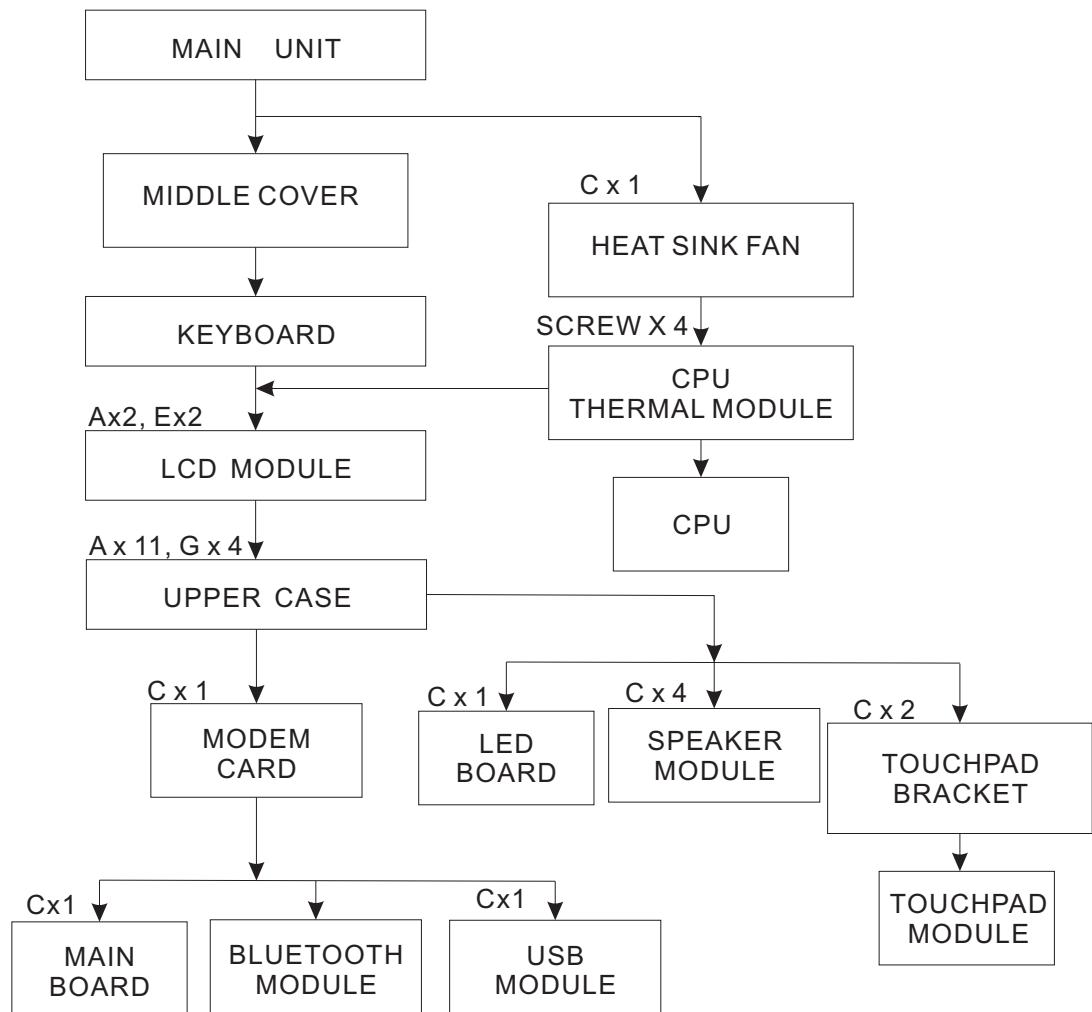


Step	Size (Quantity)	Color	Torque
1~2	M2 x L3 (2)	Silver	1.6 kgf-cm

# Main Unit Disassembly Process

## Main Unit Disassembly Flowchart

### MAIN UNIT DISASSEMBLY



#### Screw List

Item	Screw	Color	Part No.
A	M2 x L8	Black	86.00E34.738
C	M2 x L3	Silver	86.9A522.3R0
E	M2.5 x L10	Silver	86.00F84.73A
G	M2 x L4	Black	86.00A02.140
H	M2 x L3	Black	86.9A552.3R0

---

## Removing the Middle Cover

1. See "Removing the Battery Pack" on page 50.
2. Use a plastic screw driver to pry loose the side of the middle cover.



3. Carefully pry loose the middle cover from the latches securing it and remove the middle cover.



## Removing the Keyboard

1. See "Removing the Battery Pack" on page 50.
2. See "Removing the Middle Cover" on page 62.
3. Push down on the lock and release the latches securing the keyboard to the upper case.

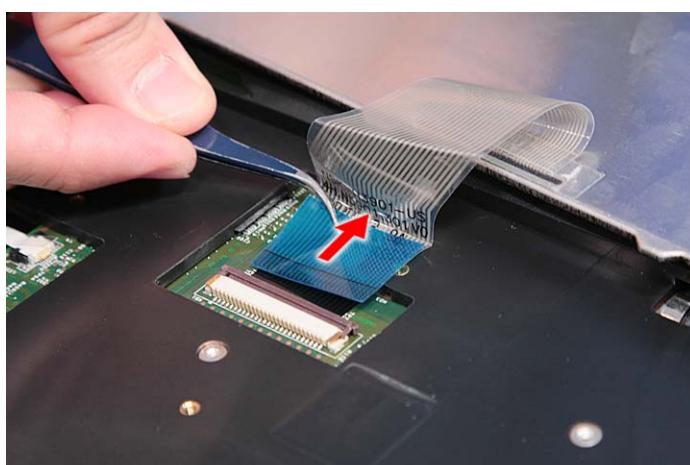
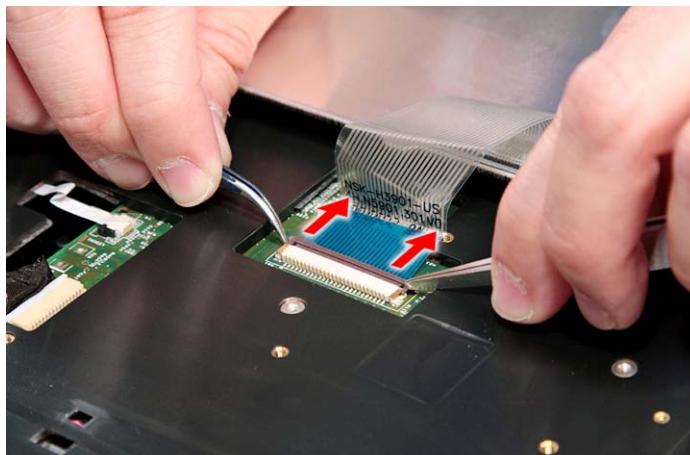


4. Carefully pry loose the keyboard and turn it over on the touchpad area.



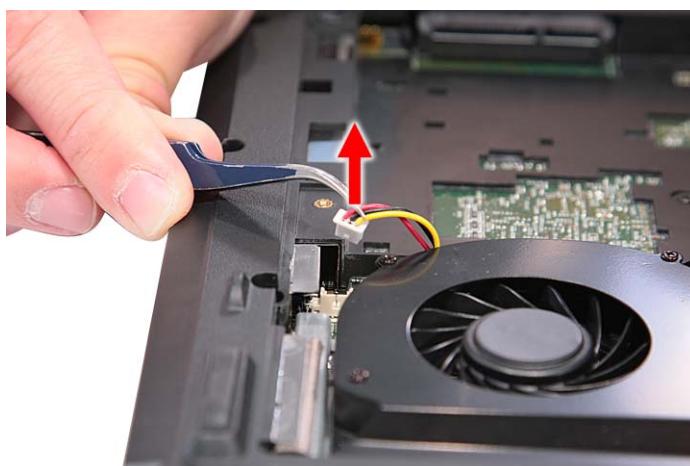
---

5. Disconnect the keyboard cable from the main board to remove the keyboard.



## Removing the Heatsink Fan Module

1. See “Removing the Battery Pack” on page 50.
2. See “Removing the Lower Cover” on page 52.
3. Disconnect the heatsink fan connector from the main board.



---

4. Remove the one screw (C) securing the heatsink fan module in place.



Step	Size (Quantity)	Color	Torque
1	M2 x L3 (1)	Silver	1.6 kgf-cm

5. Carefully lift up the heatsink fan module.

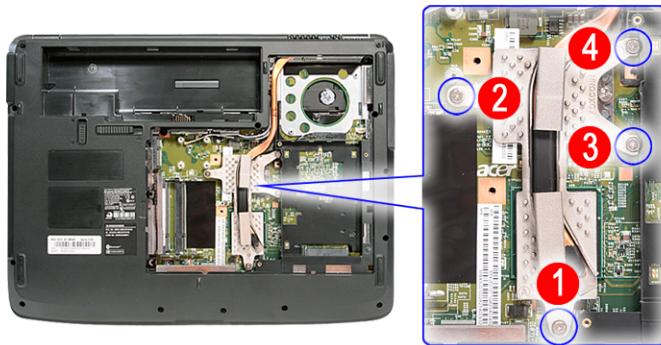


## Removing the CPU Heatsink Module

1. See “Removing the Battery Pack” on page 50.
2. See “Removing the Lower Cover” on page 52.
3. See “Removing the Heatsink Fan Module” on page 64.

---

4. Remove the four screws securing the CPU heatsink module.

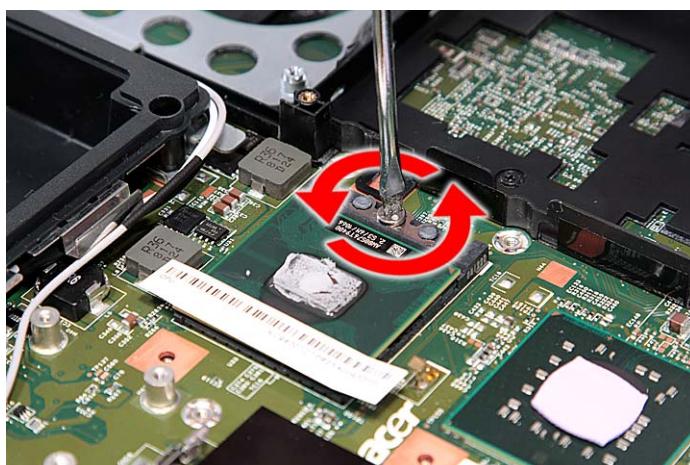


5. Carefully remove the heatsink module from the system.



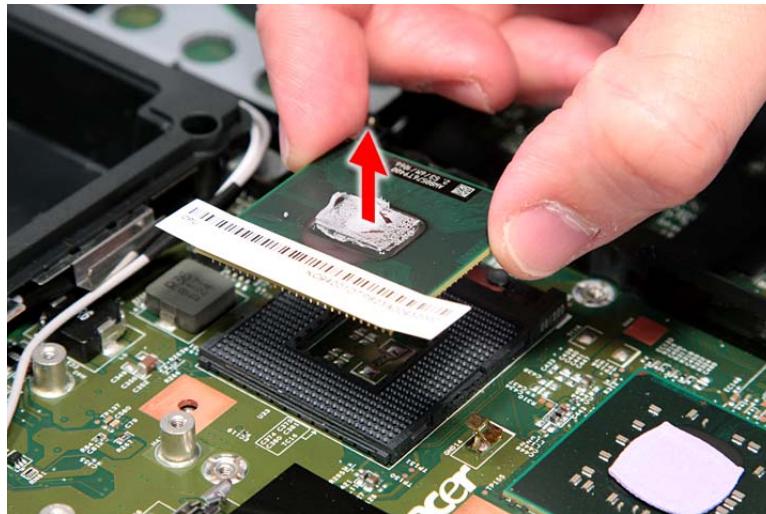
## Removing the CPU

1. See “Removing the Battery Pack” on page 50.
2. See “Removing the Lower Cover” on page 52.
3. See “Removing the Heatsink Fan Module” on page 64.
4. See “Removing the CPU Heatsink Module” on page 65.
5. Using a flat screwdriver, turn the CPU socket latch counter-clockwise to release the CPU.



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6. Lift up carefully to remove the CPU.



**NOTE:** When installing the CPU, make sure to install the CPU with PIN 1 at the corner as shown.



## Removing the LCD Module

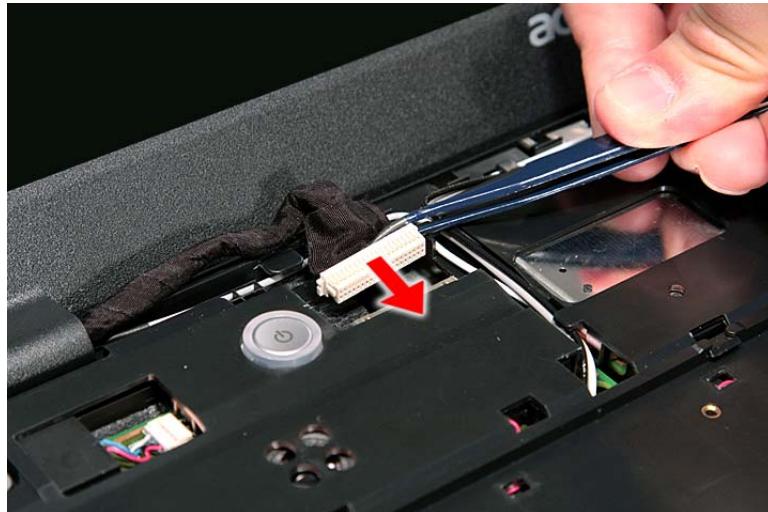
1. See “Removing the Battery Pack” on page 50.
2. See “Removing the SD dummy card” on page 51.
3. See “Removing the ExpressCard dummy card” on page 51.
4. See “Removing the Lower Cover” on page 52.
5. See “Removing the WLAN Board Modules” on page 54.
6. See “Removing the Middle Cover” on page 62.
7. See “Removing the Heatsink Fan Module” on page 64.
8. See “Removing the CPU Heatsink Module” on page 65.

9. Turn over the system and remove the two screws (A) from the bottom of the left and right hinges.



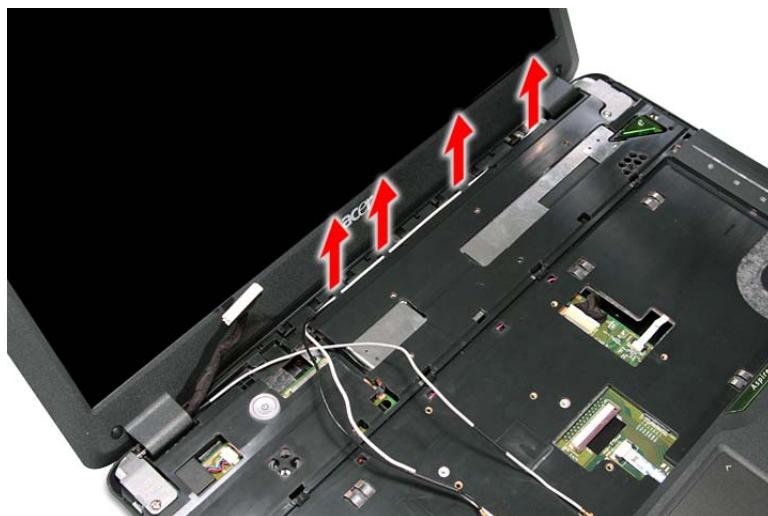
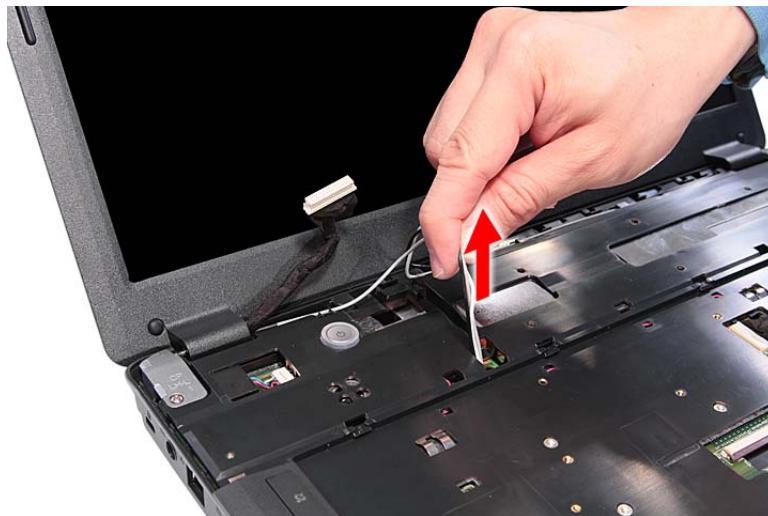
Step	Size (Quantity)	Color	Torque
1~2	M2.5 x L8 (2)	Black	3.0 kgf-cm

10. Disconnect the LCD cable connector from the main board.

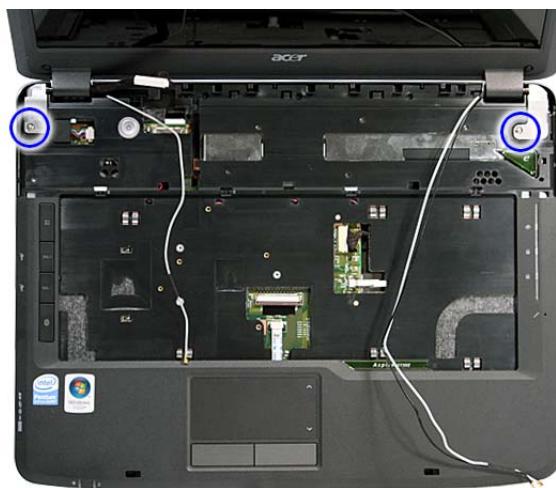


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11. Carefully pull out the wireless antenna cables from the hole and release the cables from the latches.



12. Remove the two screws (E) from the left and right hinge of the LCD module.



Step	Size (Quantity)	Color	Torque
1~2	M2.5 x L10 (2)	Silver	3.0 kgf-cm

---

13. Carefully remove the LCD module from the base unit.



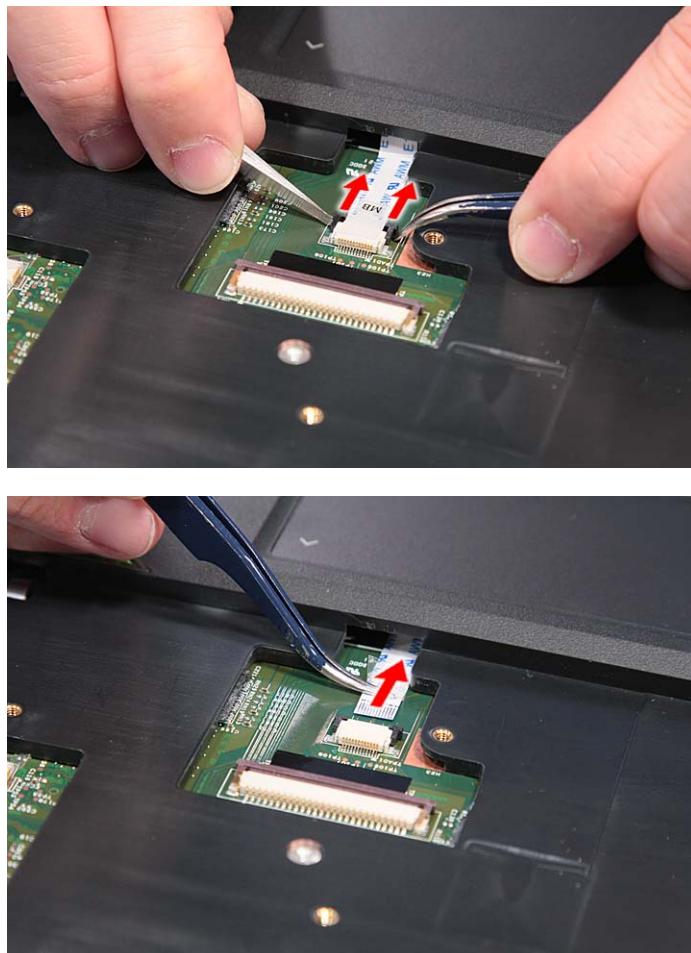
**NOTE:** When connecting the cable back to the unit, please note that the cable should be routed well.

## Separating the Upper Case from the Lower Case

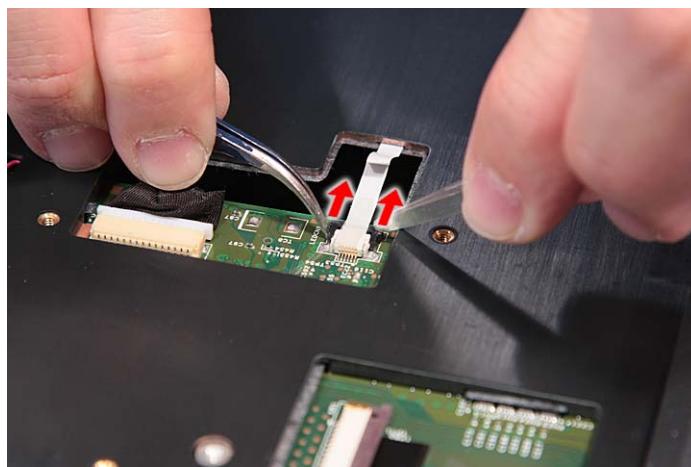
1. See "Removing the Battery Pack" on page 50.
2. See "Removing the SD dummy card" on page 51.
3. See "Removing the ExpressCard dummy card" on page 51.
4. See "Removing the Lower Cover" on page 52.
5. See "Removing the DIMM" on page 53.
6. See "Removing the WLAN Board Modules" on page 54.
7. See "Removing the Hard Disk Drive Module" on page 56.
8. See "Removing the Optical Drive Module" on page 58.
9. See "Removing the Middle Cover" on page 62.
10. See "Removing the Keyboard" on page 63.
11. See "Removing the Heatsink Fan Module" on page 64.
12. See "Removing the CPU Heatsink Module" on page 65.
13. See "Removing the CPU" on page 66.
14. See "Removing the LCD Module" on page 67.

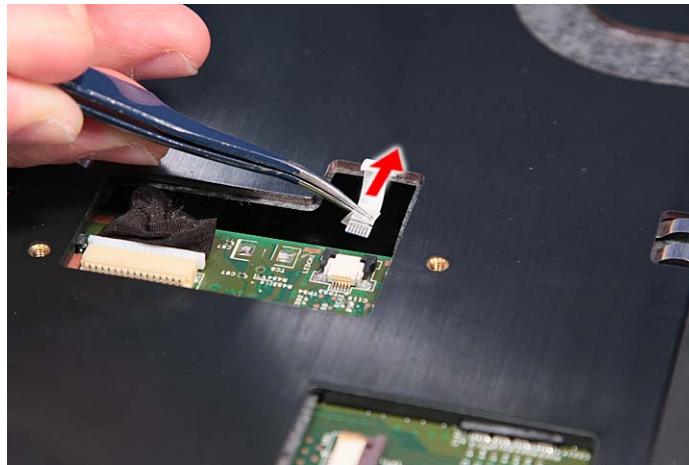
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15. Disconnect the touchpad cable from the TPAD1 connector on the main board.

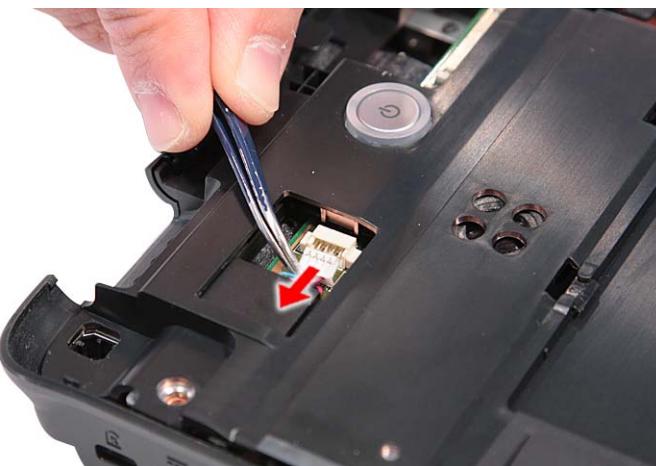


16. Disconnect the LED cable from LEDCN1 on the main board.

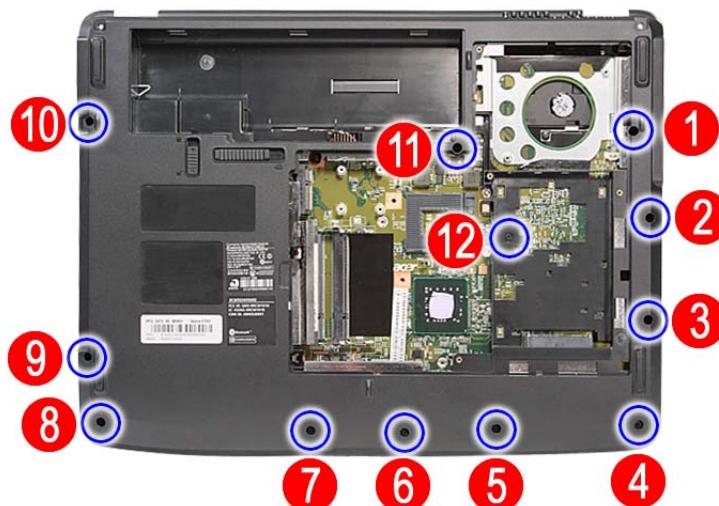




17. Disconnect the speaker cable from the INTSPK1 connector on the main board.



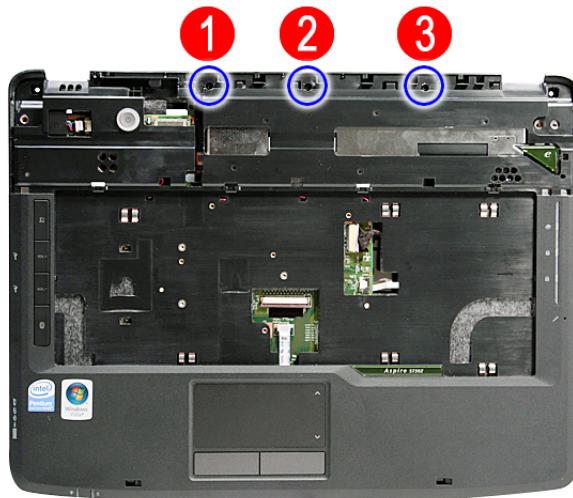
18. Remove the eleven screws (11 x A, 1 x G) from the bottom panel.



Step	Size (Quantity)	Color	Torque
1~11	M2.5 x L8 (11)	Black	3.0 kgf-cm
12	M2 x L4 (1)	Black	3.0 kgf-cm

---

19. Turn the unit over and remove the three screws (G) from the top panel.



Step	Size (Quantity)	Color	Torque
1~3	M2 x L4 (3)	Black	3.0 kgf-cm

20. Gently remove the upper case from the lower case.

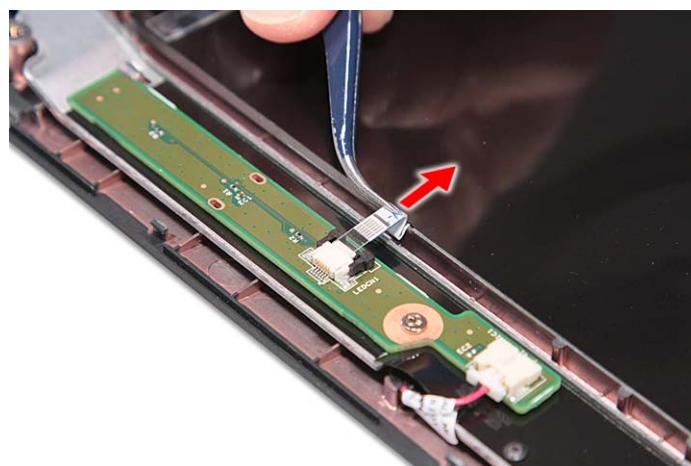


## Removing the LED Board

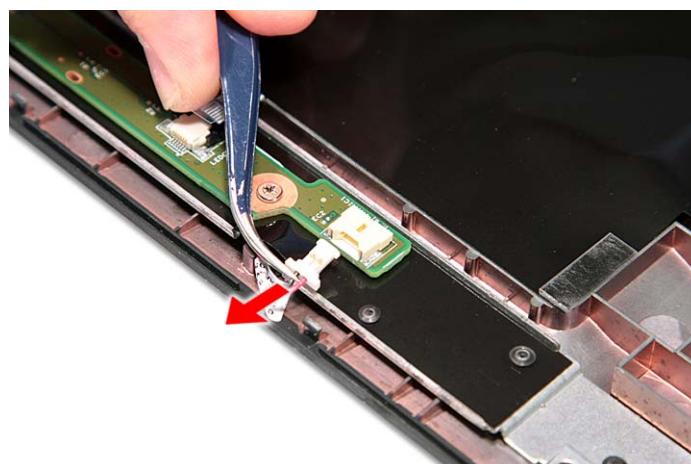
1. See "Removing the Battery Pack" on page 50.
2. See "Removing the SD dummy card" on page 51.
3. See "Removing the ExpressCard dummy card" on page 51.
4. See "Removing the Lower Cover" on page 52.
5. See "Removing the DIMM" on page 53.
6. See "Removing the WLAN Board Modules" on page 54.
7. See "Removing the Hard Disk Drive Module" on page 56.
8. See "Removing the Optical Drive Module" on page 58.
9. See "Removing the Middle Cover" on page 62.
10. See "Removing the Keyboard" on page 63.

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11. See “Removing the Heatsink Fan Module” on page 64.
12. See “Removing the CPU Heatsink Module” on page 65.
13. See “Removing the CPU” on page 66.
14. See “Removing the LCD Module” on page 67.
15. See “Separating the Upper Case from the Lower Case” on page 70.
16. Disconnect the LED cable from the LED board.

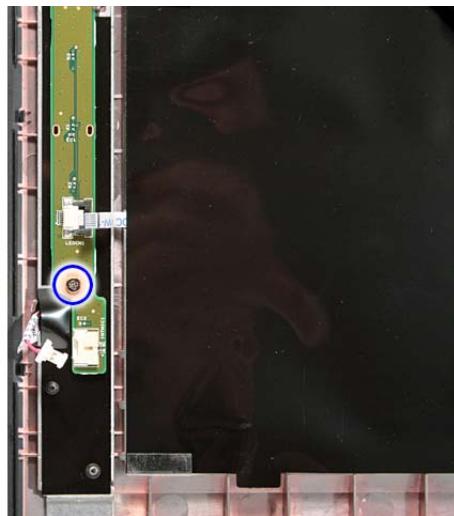


17. Disconnect the internal microphone cable from the INTMIC1 connector on the LED board.



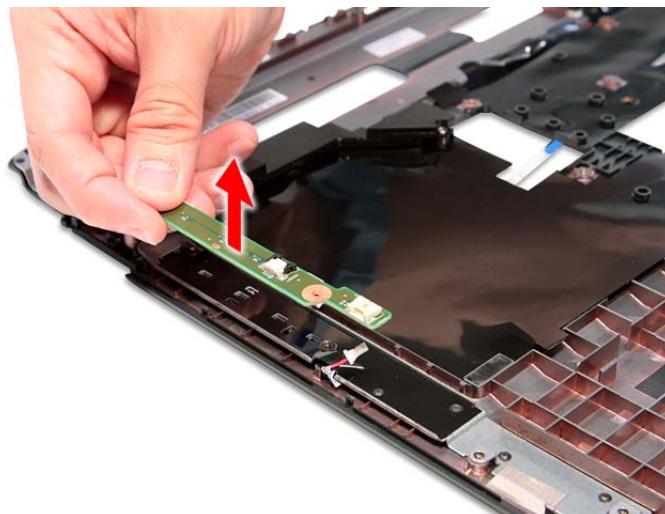
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18. Remove the one screw (C) securing the LED board.



Step	Size (Quantity)	Color	Torque
1	M2 x L3 (1)	Silver	1.6 kgf-cm

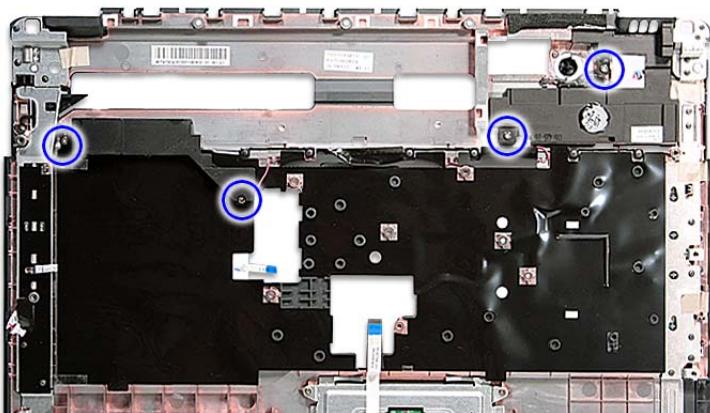
19. Remove the LED board from the upper cover.



## Removing the Speaker Module

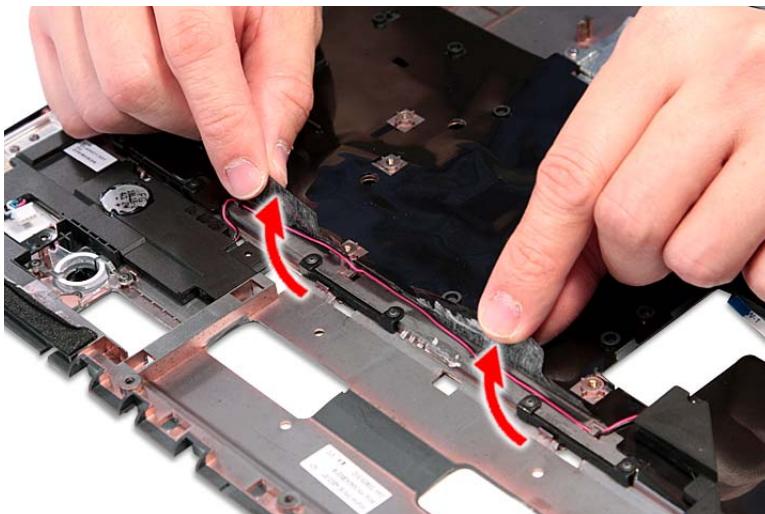
1. See “Removing the Battery Pack” on page 50.
2. See “Removing the SD dummy card” on page 51.
3. See “Removing the ExpressCard dummy card” on page 51.
4. See “Removing the Lower Cover” on page 52.
5. See “Removing the DIMM” on page 53.
6. See “Removing the WLAN Board Modules” on page 54.
7. See “Removing the Hard Disk Drive Module” on page 56.
8. See “Removing the Optical Drive Module” on page 58.
9. See “Removing the Middle Cover” on page 62.
10. See “Removing the Keyboard” on page 63.

11. See “Removing the Heatsink Fan Module” on page 64.
12. See “Removing the CPU Heatsink Module” on page 65.
13. See “Removing the CPU” on page 66.
14. See “Removing the LCD Module” on page 67.
15. See “Separating the Upper Case from the Lower Case” on page 70.
16. Remove the four screws (C) securing the speaker module.



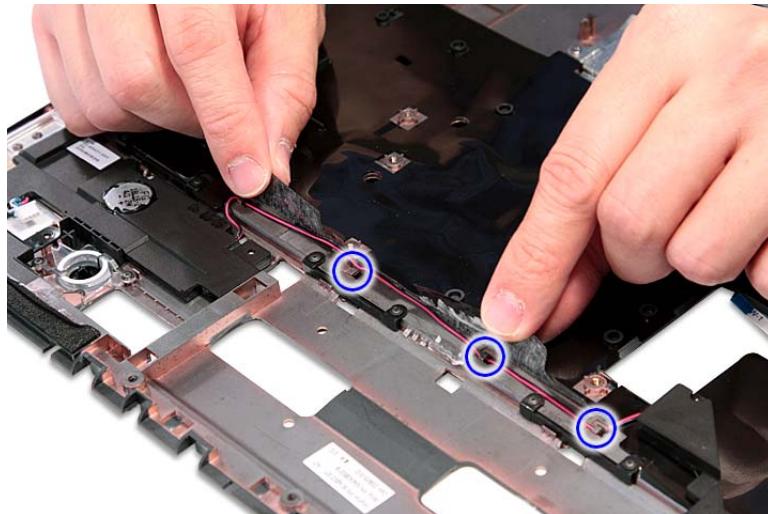
Step	Size (Quantity)	Color	Torque
1~4	M2 x L3 (4)	Silver	1.6 kgf-cm

17. Remove the tape covering the speaker cable.

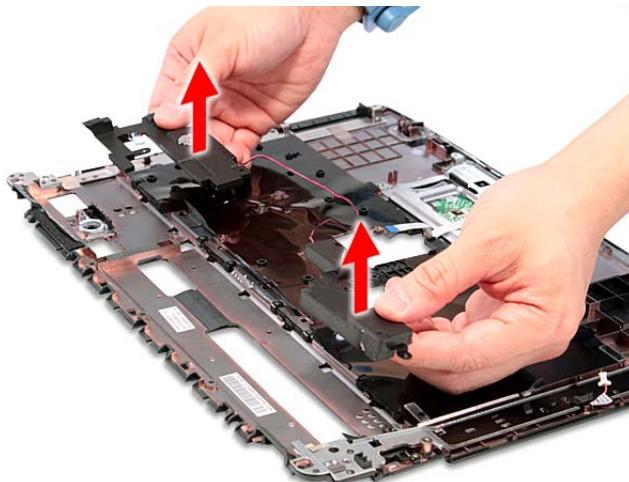


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18. Release the speaker cable from the latches.



19. Remove the speaker module from the upper case.

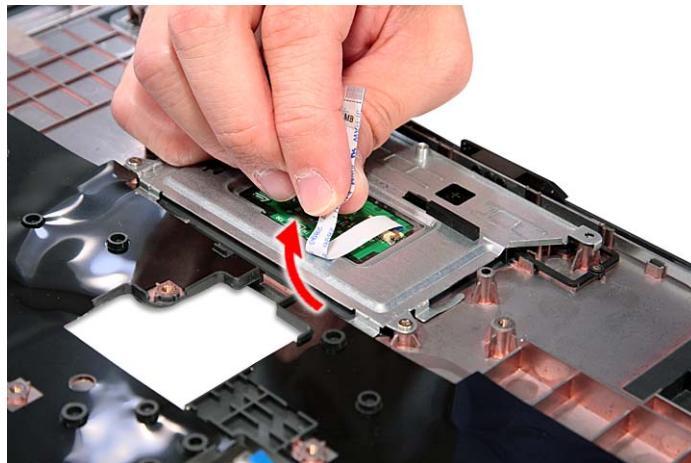


## Removing the Touchpad Module

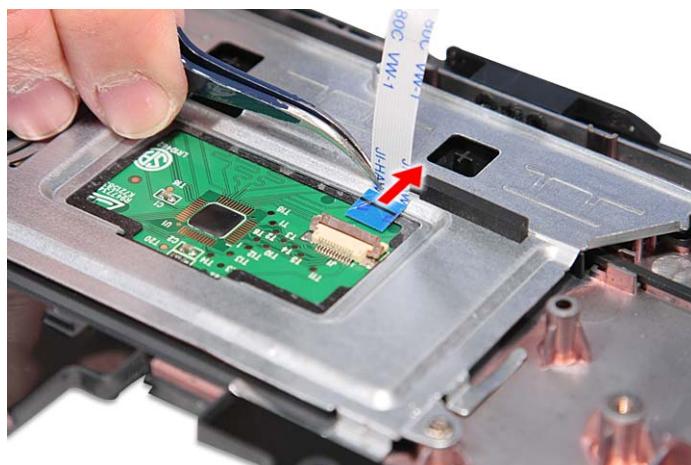
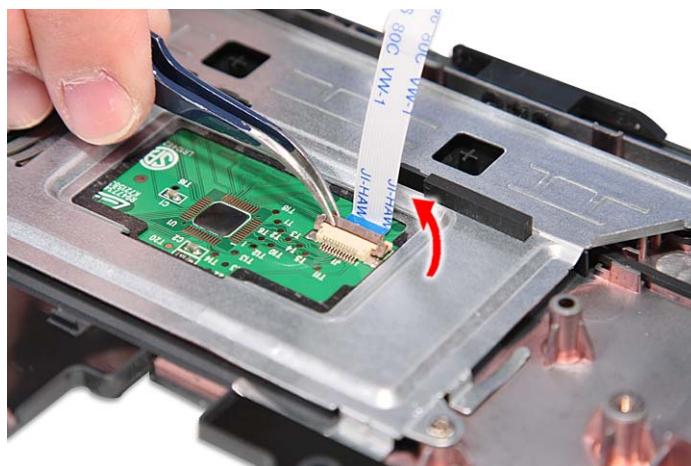
1. See “Removing the Battery Pack” on page 50.
2. See “Removing the SD dummy card” on page 51.
3. See “Removing the ExpressCard dummy card” on page 51.
4. See “Removing the Lower Cover” on page 52.
5. See “Removing the DIMM” on page 53.
6. See “Removing the WLAN Board Modules” on page 54.
7. See “Removing the Hard Disk Drive Module” on page 56.
8. See “Removing the Optical Drive Module” on page 58.
9. See “Removing the Middle Cover” on page 62.
10. See “Removing the Keyboard” on page 63.
11. See “Removing the Heatsink Fan Module” on page 64.
12. See “Removing the CPU Heatsink Module” on page 65.

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13. See "Removing the CPU" on page 66.
14. See "Removing the LCD Module" on page 67.
15. See "Separating the Upper Case from the Lower Case" on page 70.
16. Remove the touchpad cable that is glued to the bracket.

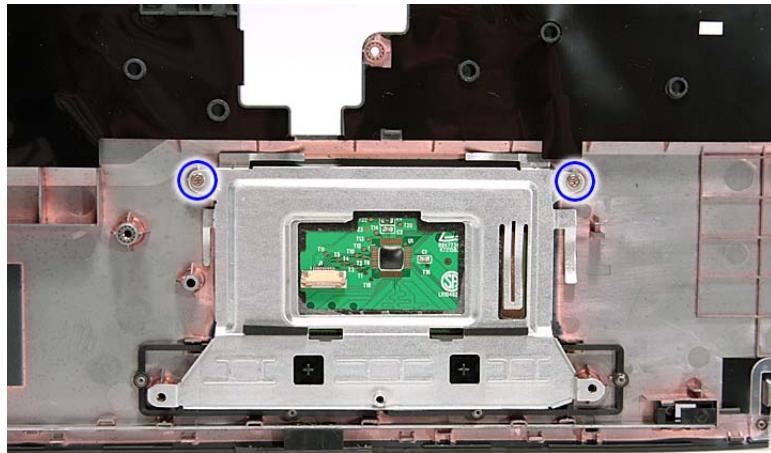


17. Disconnect the touchpad cable from the touchpad board.



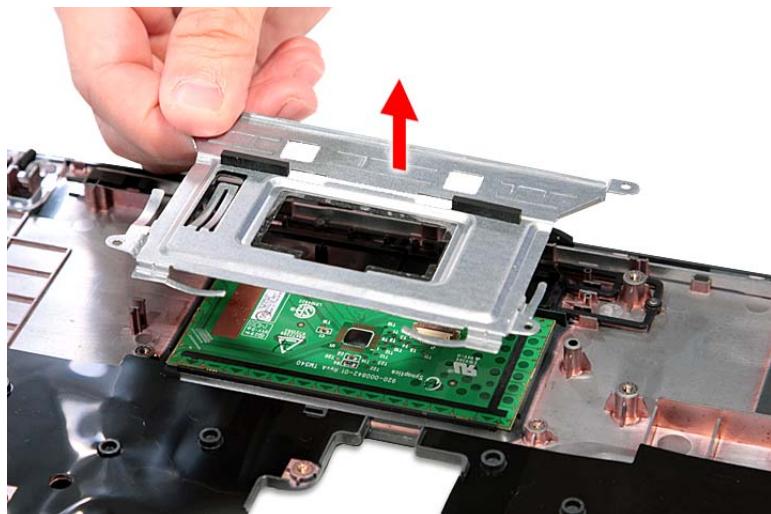
---

18. Remove the two screws (C) securing the bracket to the upper case.



Step	Size (Quantity)	Color	Torque
1~2	M2 x L2 (2)	Silver	1.6 kgf-cm

19. Remove the touchpad bracket.



---

20. Carefully pry loose and remove the touch pad board.



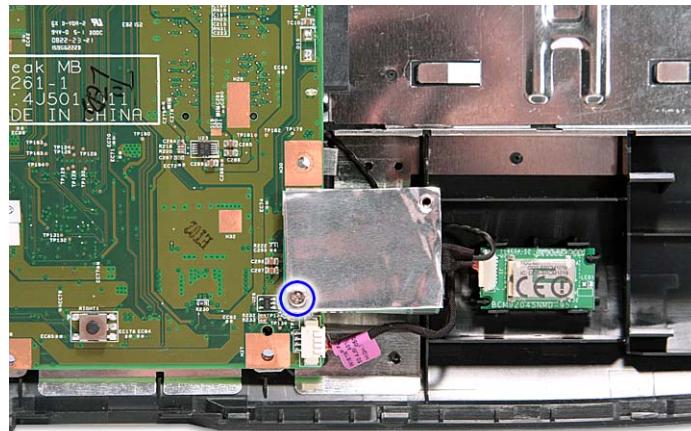
**WARNING:** The touchpad board is glued to the upper case, only remove the touchpad board if it is defective.

## Removing the Modem Board

1. See "Removing the Battery Pack" on page 50.
2. See "Removing the SD dummy card" on page 51.
3. See "Removing the ExpressCard dummy card" on page 51.
4. See "Removing the Lower Cover" on page 52.
5. See "Removing the DIMM" on page 53.
6. See "Removing the WLAN Board Modules" on page 54.
7. See "Removing the Hard Disk Drive Module" on page 56.
8. See "Removing the Optical Drive Module" on page 58.
9. See "Removing the Middle Cover" on page 62.
10. See "Removing the Keyboard" on page 63.
11. See "Removing the Heatsink Fan Module" on page 64.
12. See "Removing the CPU Heatsink Module" on page 65.

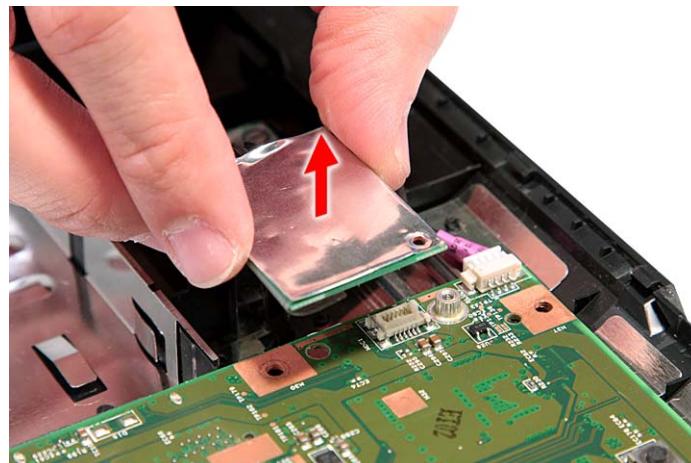
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13. See "Removing the CPU" on page 66.
14. See "Removing the LCD Module" on page 67.
15. See "Separating the Upper Case from the Lower Case" on page 70.
16. Remove the one screw (C) securing the modem card.



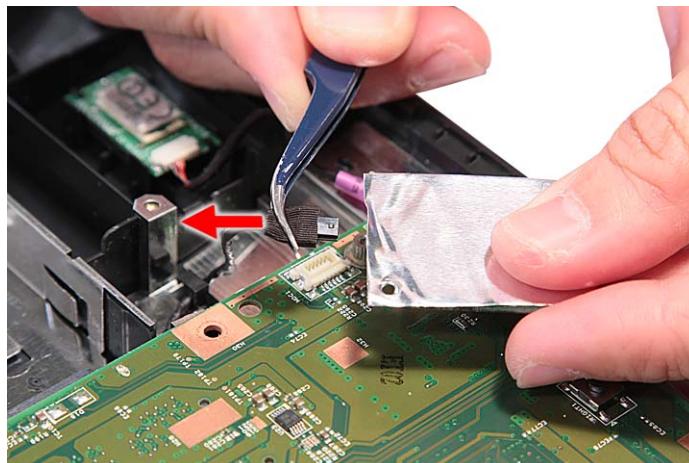
Step	Size (Quantity)	Color	Torque
1	M2 x L3 (1)	Silver	1.6 kgf-cm

17. Lift the modem board from the main board.



---

18. Disconnect the cable from the modem board.

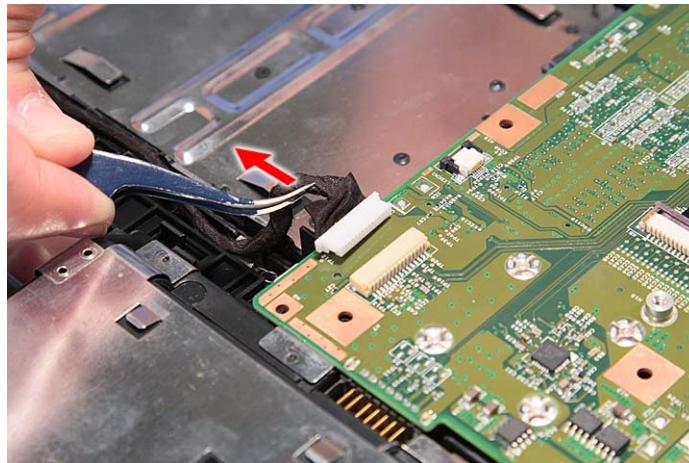


## Removing the Main Board

1. See "Removing the Battery Pack" on page 50.
2. See "Removing the SD dummy card" on page 51.
3. See "Removing the ExpressCard dummy card" on page 51.
4. See "Removing the Lower Cover" on page 52.
5. See "Removing the DIMM" on page 53.
6. See "Removing the WLAN Board Modules" on page 54.
7. See "Removing the Hard Disk Drive Module" on page 56.
8. See "Removing the Optical Drive Module" on page 58.
9. See "Removing the Middle Cover" on page 62.
10. See "Removing the Keyboard" on page 63.
11. See "Removing the Heatsink Fan Module" on page 64.
12. See "Removing the CPU Heatsink Module" on page 65.
13. See "Removing the CPU" on page 66.
14. See "Removing the LCD Module" on page 67.
15. See "Separating the Upper Case from the Lower Case" on page 70.
16. See "Removing the Modem Board" on page 80.

---

17. Disconnect the USB cable from the USBCN1 connector on the main board.



18. Disconnect the bluetooth cable from the BLUE1 connector on the main board.



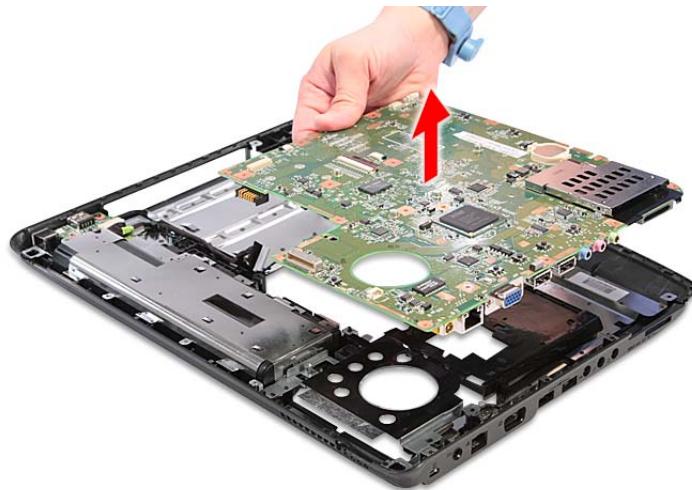
19. Remove the one screw (C) securing the main board in place.



Step	Size (Quantity)	Color	Torque
1	M2 x L3 (1)	Silver	1.6 kgf-cm

---

**20.** Carefully remove the main board.



## Removing the USB Board Module

1. See “Removing the Battery Pack” on page 50.
2. See “Removing the SD dummy card” on page 51.
3. See “Removing the ExpressCard dummy card” on page 51.
4. See “Removing the Lower Cover” on page 52.
5. See “Removing the DIMM” on page 53.
6. See “Removing the WLAN Board Modules” on page 54.
7. See “Removing the Hard Disk Drive Module” on page 56.
8. See “Removing the Optical Drive Module” on page 58.
9. See “Removing the Middle Cover” on page 62.
10. See “Removing the Keyboard” on page 63.
11. See “Removing the Heatsink Fan Module” on page 64.
12. See “Removing the CPU Heatsink Module” on page 65.
13. See “Removing the CPU” on page 66.
14. See “Removing the LCD Module” on page 67.
15. See “Separating the Upper Case from the Lower Case” on page 70.
16. See “Removing the Modem Board” on page 80.

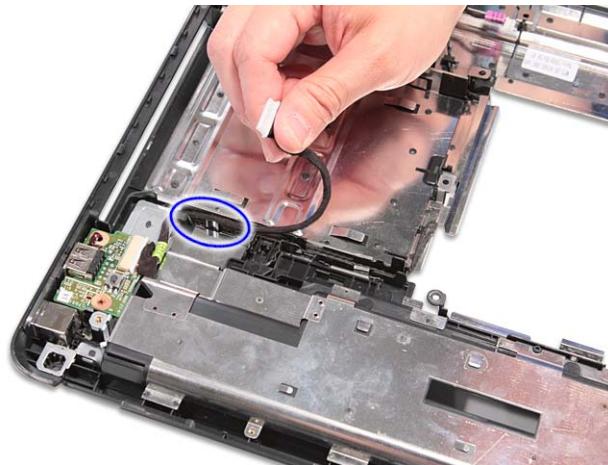
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17. Remove the one screw (C) securing the USB board module to the lower case.

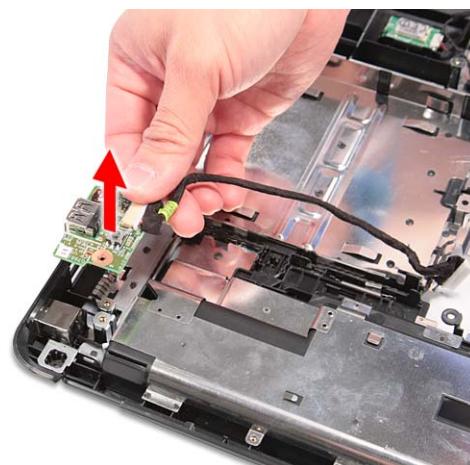


Step	Size (Quantity)	Color	Torque
1	M2 x L3 (1)	Silver	1.6 kgf-cm

18. Release the USB cable from the latch.



19. Remove the USB board module from the lower case.



## Removing the Bluetooth Modules

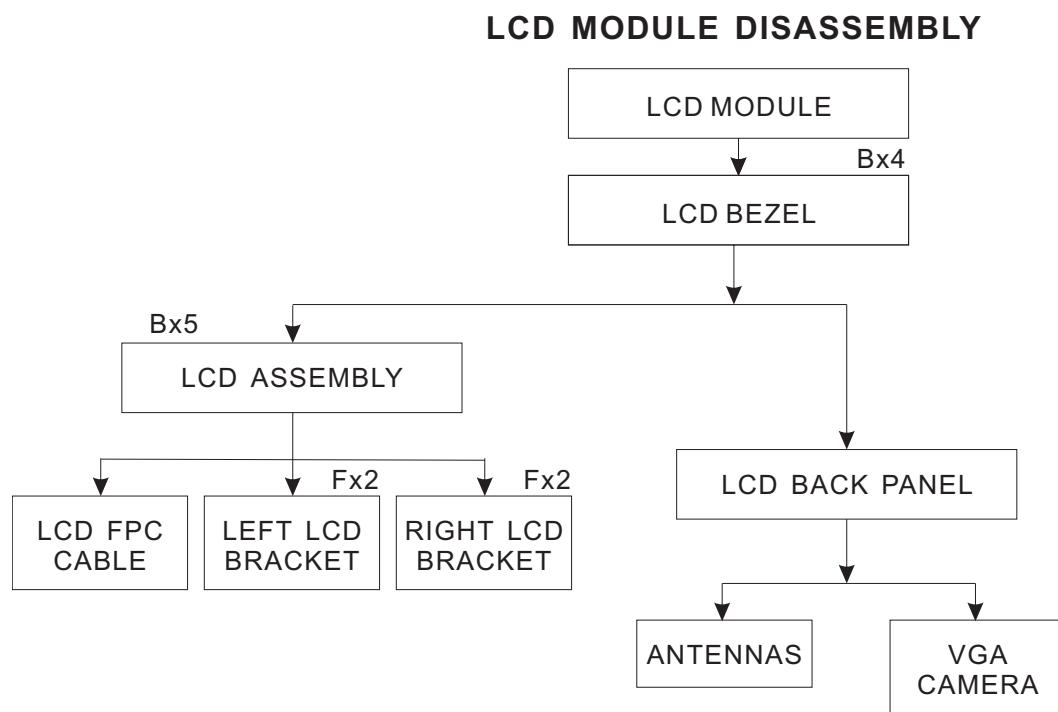
1. See “Removing the Battery Pack” on page 50.
2. See “Removing the SD dummy card” on page 51.
3. See “Removing the ExpressCard dummy card” on page 51.
4. See “Removing the Lower Cover” on page 52.
5. See “Removing the DIMM” on page 53.
6. See “Removing the WLAN Board Modules” on page 54.
7. See “Removing the Hard Disk Drive Module” on page 56.
8. See “Removing the Optical Drive Module” on page 58.
9. See “Removing the Middle Cover” on page 62.
10. See “Removing the Keyboard” on page 63.
11. See “Removing the Heatsink Fan Module” on page 64.
12. See “Removing the CPU Heatsink Module” on page 65.
13. See “Removing the CPU” on page 66.
14. See “Removing the LCD Module” on page 67.
15. See “Separating the Upper Case from the Lower Case” on page 70.
16. Remove the bluetooth module from the lower case.



**NOTE:** Be careful when removing the bluetooth module, because it is glued to the lower case.

# LCD Module Disassembly Process

## LCD Module Disassembly Flowchart



### Screw List

Item	Screw	Color	Part No.
B	M2.5 x L6	Black	86.00E12.536
F	M2 x L4	Silver	86.00C07.220

## Removing the LCD Bezel

1. See "Removing the Battery Pack" on page 50.
2. See "Removing the SD dummy card" on page 51.
3. See "Removing the ExpressCard dummy card" on page 51.
4. See "Removing the Lower Cover" on page 52.
5. See "Removing the WLAN Board Modules" on page 54.
6. See "Removing the Middle Cover" on page 62.
7. See "Removing the Heatsink Fan Module" on page 64.
8. See "Removing the CPU Heatsink Module" on page 65.
9. See "Removing the LCD Module" on page 67.
10. Remove the four screw covers from the LCD bezel.



11. Remove the four screws (B) on the LCD module as shown.



Step	Size (Quantity)	Color	Torque
1~4	M2.5 x L6 (4)	Black	3.0 kgf-cm

---

12. Carefully pry open the LCD bezel and place the bezel on top of the LCD panel.



## Removing the LCD panel with the Brackets

1. See “Removing the Battery Pack” on page 50.
2. See “Removing the SD dummy card” on page 51.
3. See “Removing the ExpressCard dummy card” on page 51.
4. See “Removing the Lower Cover” on page 52.
5. See “Removing the WLAN Board Modules” on page 54.
6. See “Removing the Middle Cover” on page 62.
7. See “Removing the Heatsink Fan Module” on page 64.
8. See “Removing the CPU Heatsink Module” on page 65.
9. See “Removing the LCD Module” on page 67.
10. See “Removing the LCD Bezel” on page 88.

11. Disconnect the cable from the web camera.



12. Remove the five screws (5 x B) securing the LCD module.



Step	Size (Quantity)	Color	Torque
1~5	M2.5 x L6 (5)	Black	3.0 kgf-cm

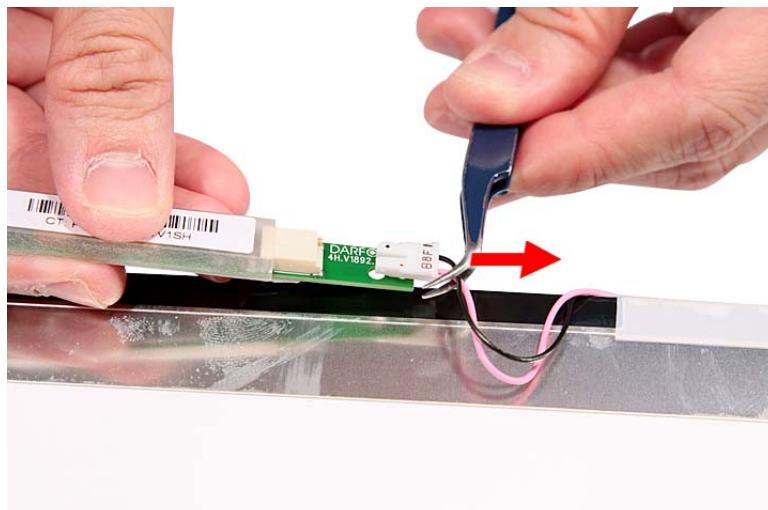
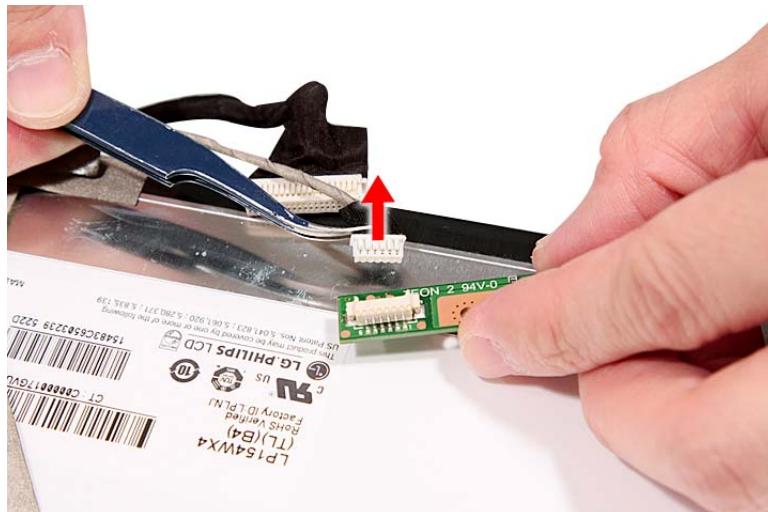
13. Remove the LCD with the brackets from the back cover.



## Removing the Inverter Board and FPC Cable

1. See "Removing the Battery Pack" on page 50.

2. See “Removing the SD dummy card” on page 51.
3. See “Removing the ExpressCard dummy card” on page 51.
4. See “Removing the Lower Cover” on page 52.
5. See “Removing the WLAN Board Modules” on page 54.
6. See “Removing the Middle Cover” on page 62.
7. See “Removing the Heatsink Fan Module” on page 64.
8. See “Removing the CPU Heatsink Module” on page 65.
9. See “Removing the LCD Module” on page 67.
10. See “Removing the LCD Bezel” on page 88.
11. See “Removing the LCD panel with the Brackets” on page 89.
12. Disconnect the cables from the inverter board.



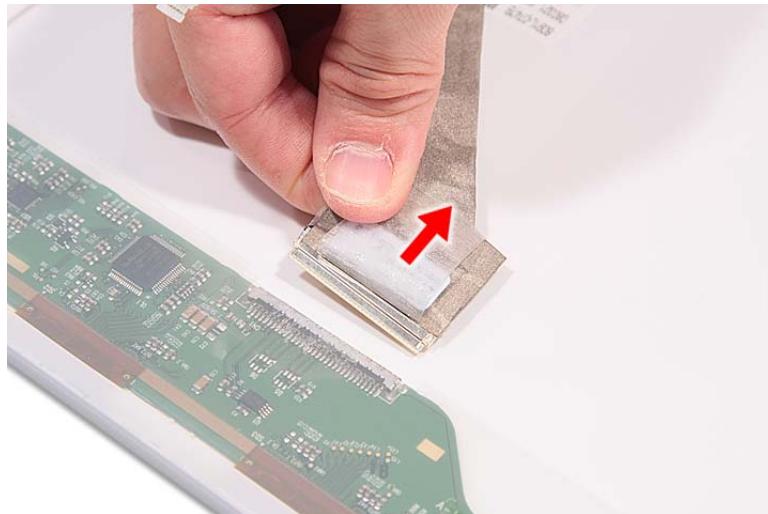
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13. Detach any adhesive tapes and any cable that is glued to the LCD panel.



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**14.** Disconnect the FPC cable from the LCD panel.



## Removing the LCD Brackets

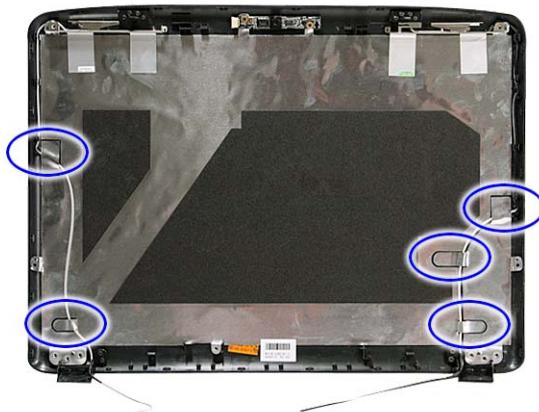
1. See “Removing the Battery Pack” on page 50.
2. See “Removing the SD dummy card” on page 51.
3. See “Removing the ExpressCard dummy card” on page 51.
4. See “Removing the Lower Cover” on page 52.
5. See “Removing the WLAN Board Modules” on page 54.
6. See “Removing the Middle Cover” on page 62.
7. See “Removing the Heatsink Fan Module” on page 64.
8. See “Removing the CPU Heatsink Module” on page 65.
9. See “Removing the LCD Module” on page 67.
10. See “Removing the LCD Bezel” on page 88.
11. See “Removing the LCD panel with the Brackets” on page 89.
12. See “Removing the Inverter Board and FPC Cable” on page 90.
13. Remove the four screws (4 x F) securing the left and right LCD brackets to remove the brackets.



Step	Size (Quantity)	Color	Torque
1~4	M2 x L4 (4)	Silver	1.0 kgf-cm

## Removing the Antennas

1. See “Removing the Battery Pack” on page 50.
2. See “Removing the SD dummy card” on page 51.
3. See “Removing the ExpressCard dummy card” on page 51.
4. See “Removing the Lower Cover” on page 52.
5. See “Removing the WLAN Board Modules” on page 54.
6. See “Removing the Middle Cover” on page 62.
7. See “Removing the Heatsink Fan Module” on page 64.
8. See “Removing the CPU Heatsink Module” on page 65.
9. See “Removing the LCD Module” on page 67.
10. See “Removing the LCD Bezel” on page 88.
11. See “Removing the LCD panel with the Brackets” on page 89.
12. Release the antenna cables from the aluminium tapes.



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13. Remove the left and right antenna cables together with the tapes holding them in place.



**NOTE:** There is no need to remove the antenna unless you really need to replace it.

## Removing the Web Camera

1. See “Removing the Battery Pack” on page 50.
2. See “Removing the SD dummy card” on page 51.
3. See “Removing the ExpressCard dummy card” on page 51.
4. See “Removing the Lower Cover” on page 52.
5. See “Removing the WLAN Board Modules” on page 54.
6. See “Removing the Middle Cover” on page 62.
7. See “Removing the Heatsink Fan Module” on page 64.
8. See “Removing the CPU Heatsink Module” on page 65.
9. See “Removing the LCD Module” on page 67.
10. See “Removing the LCD Bezel” on page 88.
11. See “Removing the LCD panel with the Brackets” on page 89.

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12. Remove the Web camera from the back cover.



# Troubleshooting

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Use the following procedure as a guide for computer problems.

**NOTE:** The diagnostic tests are intended to test only Acer products. Non-Acer products, prototype cards, or modified options can give false errors and invalid system responses.

1. Obtain the failing symptoms in as much detail as possible.
2. Verify the symptoms by attempting to re-create the failure by running the diagnostic test or by repeating the same operation.
3. Use the following table with the verified symptom to determine which page to go to.

Symptoms (Verified)	Go To
Power failure. (The power indicator does not go on or stay on.)	“Power System Check” on page 99.
POST does not complete. No beep or error codes are indicated.	“Power-On Self-Test (POST) Error Message” on page 102 “Undetermined Problems” on page 116
POST detects an error and displayed messages on screen.	“Error Message List” on page 103
Other symptoms (i.e. LCD display problems or others).	“Power-On Self-Test (POST) Error Message” on page 102
Symptoms cannot be re-created (intermittent problems).	Use the customer-reported symptoms and go to “Power-On Self-Test (POST) Error Message” on page 102 “Intermittent Problems” on page 115 “Undetermined Problems” on page 116

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# System Check Procedures

## External Diskette Drive Check

Do the following to isolate the problem to a controller, driver, or diskette. A write-enabled, diagnostic diskette is required.

**NOTE:** Make sure that the diskette does not have more than one label attached to it. Multiple labels can cause damage to the drive or cause the drive to fail.

Do the following to select the test device.

1. Boot from the diagnostics diskette and start the diagnostics program.
2. See if FDD Test is passed as the program runs to FDD Test.
3. Follow the instructions in the message window.

If an error occurs with the internal diskette drive, reconnect the diskette connector on the system board.

If the error still remains:

1. Reconnect the external diskette drive/DVD-ROM module.
2. Replace the external diskette drive/CD-ROM module.
3. Replace the main board.

## External CD-ROM Drive Check

Do the following to isolate the problem to a controller, drive, or CD-ROM. Make sure that the CD-ROM does not have any label attached to it. The label can cause damage to the drive or can cause the drive to fail.

Do the following to select the test device:

1. Boot from the diagnostics diskette and start the diagnostics program.
2. See if CD-ROM Test is passed when the program runs to CD-ROM Test.
3. Follow the instructions in the message window.

If an error occurs, reconnect the connector on the System board. If the error still remains:

1. Reconnect the external diskette drive/CD-ROM module.
2. Replace the external diskette drive/CD-ROM module.
3. Replace the main board.

## Keyboard or Auxiliary Input Device Check

Remove the external keyboard if the internal keyboard is to be tested.

If the internal keyboard does not work or an unexpected character appears, make sure that the flexible cable extending from the keyboard is correctly seated in the connector on the system board.

If the keyboard cable connection is correct, run the Keyboard Test.

If the tests detect a keyboard problem, do the following one at a time to correct the problem. Do not replace a non-defective FRU:

1. Reconnect the keyboard cables.
2. Replace the keyboard.
3. Replace the main board.

The following auxiliary input devices are supported by this computer:

- q Numeric keypad

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- q External keyboard

If any of these devices do not work, reconnect the cable connector and repeat the failing operation.

## Memory Check

Memory errors might stop system operations, show error messages on the screen, or hang the system.

1. Boot from the diagnostics diskette and start the diagnostic program (please refer to main board).
2. Go to the diagnostic memory in the test items.
3. Press F2 in the test items.
4. Follow the instructions in the message window.

**NOTE:** Make sure that the DIMM is fully installed into the connector. A loose connection can cause an error.

## Power System Check

To verify the symptom of the problem, power on the computer using each of the following power sources:

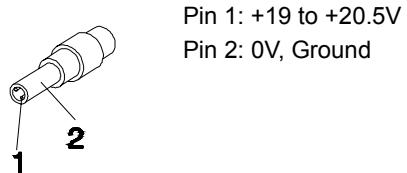
1. Remove the battery pack.
2. Connect the power adapter and check that power is supplied.
3. Disconnect the power adapter and install the charged battery pack; then check that power is supplied by the battery pack.

If you suspect a power problem, see the appropriate power supply check in the following list:

- q “Check the Power Adapter” on page 100
- q “Check the Battery Pack” on page 101

## Check the Power Adapter

Unplug the power adapter cable from the computer and measure the output voltage at the plug of the power adapter cable. See the following figure



1. If the voltage is not correct, replace the power adapter.

2. If the voltage is within the range, do the following:

- q Replace the System board.
- q If the problem is not corrected, see "Undetermined Problems" on page 116.
- q If the voltage is not correct, go to the next step.

**NOTE:** An audible noise from the power adapter does not always indicate a defect.

3. If the power-on indicator does not light up, check the power cord of the power adapter for correct continuity and installation.
4. If the operational charge does not work, see "Check the Battery Pack" on page 101.

---

## Check the Battery Pack

To check the battery pack, do the following:

From Software:

1. Check out the Power Management in control Panel
2. In Power Meter, confirm that if the parameters shown in the screen for Current Power Source and Total Battery Power Remaining are correct.
3. Repeat the steps 1 and 2, for both battery and adapter.
4. This helps you identify first the problem is on recharging or discharging.

From Hardware:

1. Power off the computer.
2. Remove the battery pack and measure the voltage between battery terminals 1(+) and 6(ground).
3. If the voltage is still less than 7.5 Vdc after recharging, replace the battery.

To check the battery charge operation, use a discharged battery pack or a battery pack that has less than 50% of the total power remaining when installed in the computer.

If the battery status indicator does not light up, remove the battery pack and let it return to room temperature. Re-install the battery pack.

If the charge indicator still does not light up, replace the battery pack. If the charge indicator still does not light up, replace the DC/DC charger board.

## Touchpad Check

If the touchpad doesn't work, do the following actions one at a time to correct the problem. Do not replace a non-defective FRU:

1. Reconnect the touchpad cables.
2. Replace the touchpad.
3. Replace the system board.

After you use the touchpad, the pointer drifts on the screen for a short time. This self-acting pointer movement can occur when a slight, steady pressure is applied to the touchpad pointer. This symptom is not a hardware problem. No service actions are necessary if the pointer movement stops in a short period of time.

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# Power-On Self-Test (POST) Error Message

The POST error message index lists the error message and their possible causes. The most likely cause is listed first.

**NOTE:** Perform the FRU replacement or actions in the sequence shown in FRU/Action column, if the FRU replacement does not solve the problem, put the original part back in the computer. Do not replace a non-defective FRU.

This index can also help you determine the next possible FRU to be replaced when servicing a computer.

If the symptom is not listed, see “Undetermined Problems” on page 116.

The following lists the error messages that the BIOS displays on the screen and the error symptoms classified by function.

**NOTE:** Most of the error messages occur during POST. Some of them display information about a hardware device, e.g., the amount of memory installed. Others may indicate a problem with a device, such as the way it has been configured.

**NOTE:** If the system fails after you make changes in the BIOS Setup Utility menus, reset the computer, enter Setup and install Setup defaults or correct the error.

# Index of Error Messages

## Error Code List

Error Codes	Error Messages
006	Equipment Configuration Error Causes: 1. CPU BIOS Update Code Mismatch 2. IDE Primary Channel Master Drive Error (The causes will be shown before "Equipment Configuration Error")
010	Memory Error at xxxx:xxxx:xxxxh (R:xxxxh, W:xxxxh)
070	Real Time Clock Error
071	CMOS Battery Bad
072	CMOS Checksum Error
110	System disabled. Incorrect password is specified.
<No error code>	Battery critical LOW In this situation BIOS will issue 4 short beeps then shut down system, no message will show.
<No error code>	Thermal critical High In this situation BIOS will shut down system, not show message.

## Error Message List

Error Messages	FRU/Action in Sequence
Failure Fixed Disk	Reconnect hard disk drive connector. "Load Default Settings" in BIOS Setup Utility. Hard disk drive System board
Stuck Key	see "Keyboard or Auxiliary Input Device Check" on page 98.
Keyboard error	see "Keyboard or Auxiliary Input Device Check" on page 98.
Keyboard Controller Failed	see "Keyboard or Auxiliary Input Device Check" on page 98.
Keyboard locked - Unlock key switch	Unlock external keyboard
Monitor type does not match CMOS - Run Setup	Run "Load Default Settings" in BIOS Setup Utility.
Shadow RAM Failed at offset: nnnn	BIOS ROM System board
System RAM Failed at offset: nnnn	DIMM System board
Extended RAM Failed at offset: nnnn	DIMM System board
System battery is dead - Replace and run Setup	Replace RTC battery and Run BIOS Setup Utility to reconfigure system time, then reboot system.
System CMOS checksum bad - Default configuration used	RTC battery Run BIOS Setup Utility to reconfigure system time, then reboot system.

## Error Message List

Error Messages	FRU/Action in Sequence
System timer error	RTC battery Run BIOS Setup Utility to reconfigure system time, then reboot system. System board
Real time clock error	RTC battery Run BIOS Setup Utility to reconfigure system time, then reboot system. System board
Previous boot incomplete - Default configuration used	Run "Load Default Settings" in BIOS Setup Utility. RTC battery System board
Memory size found by POST differed from CMOS	Run "Load Default Settings" in BIOS Setup Utility. DIMM System board
Diskette drive A error	Check the drive is defined with the proper diskette type in BIOS Setup Utility See "External Diskette Drive Check" on page 98.
Incorrect Drive A type - run SETUP	Check the drive is defined with the proper diskette type in BIOS Setup Utility
System cache error - Cache disabled	System board
CPU ID:	System board
DMA Test Failed	DIMM System board
Software NMI Failed	DIMM System board
Fail-Safe Timer NMI Failed	DIMM System board
Device Address Conflict	Run "Load Default Settings" in BIOS Setup Utility. RTC battery System board
Allocation Error for device	Run "Load Default Settings" in BIOS Setup Utility. RTC battery System board
Failing Bits: nnnn	DIMM BIOS ROM System board
Fixed Disk n	None
Invalid System Configuration Data	BIOS ROM System board
I/O device IRQ conflict	Run "Load Default Settings" in BIOS Setup Utility. RTC battery System board
Operating system not found	Enter Setup and see if fixed disk and drive A: are properly identified. Diskette drive Hard disk drive System board

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## Error Message List

No beep Error Messages	FRU/Action in Sequence
No beep, power-on indicator turns off and LCD is blank.	Power source (battery pack and power adapter). See "Power System Check" on page 99.. Ensure every connector is connected tightly and correctly. Reconnect the DIMM. LED board. System board.
No beep, power-on indicator turns on and LCD is blank.	Power source (battery pack and power adapter). See "Power System Check" on page 99.. Reconnect the LCD connector Hard disk drive LCD inverter ID LCD cable LCD Inverter LCD System board
No beep, power-on indicator turns on and LCD is blank. But you can see POST on an external CRT.	Reconnect the LCD connectors. LCD inverter ID LCD cable LCD inverter LCD System board
No beep, power-on indicator turns on and a blinking cursor shown on LCD during POST.	Ensure every connector is connected tightly and correctly. System board
No beep during POST but system runs correctly.	Speaker System board

# Phoenix BIOS Beep Codes

Code	Beeps	POST Routine Description
02h		Verify Real Mode
03h		Disable Non-Maskable Interrupt (NMI)
04h		Get CPU type
06h		Initialize system hardware
08h		Initialize chipset with initial POST values
09h		Set IN POST flag
0Ah		Initialize CPU registers
0Bh		Enable CPU cache
0Ch		Initialize caches to initial POST values
0Eh		Initialize I/O component
0Fh		Initialize the local bus IDE
10h		Initialize Power Management
11h		Load alternate registers with initial POST values
12h		Restore CPU control word during warm boot
13h		Initialize PCI Bus Mastering devices
14h		Initialize keyboard controller
16h	1-2-2-3	BIOS ROM checksum
17h		Initialize cache before memory autosize
18h		8254 timer initialization
1Ah		8237 DMA controller initialization
1Ch		Reset Programmable Interrupt Controller
20h	1-3-1-1	Test DRAM refresh
22h	1-3-1-3	Test 8742 Keyboard Controller
24h		Set ES segment register to 4 GB
26h		Enable A20 line
28h		Autosize DRAM
29h		Initialize POST Memory Manager
2Ah		Clear 215 KB base RAM
2Ch	1-3-4-1	RAM failure on address line xxxx
2Eh	1-3-4-3	RAM failure on data bits xxxx of low byte of memory bus
2Fh		Enable cache before system BIOS shadow
30h	1-4-1-1	RAM failure on data bits xxxx of high byte of memory bus
32h		Test CPU bus-clock frequency
33h		Initialize Phoenix Dispatch Manager
36h		Warm start shut down
38h		Shadow system BIOS ROM
3Ah		Autosize cache

Code	Beeps	POST Routine Description
3Ch		Advanced configuration of chipset registers
3Dh		Load alternate registers with CMOS values
42h		Initialize interrupt vectors
45h		POST device initialization
46h	2-1-2-3	Check ROM copyright notice
48h		Check video configuration against CMOS
49h		Initialize PCI bus and devices
4Ah		Initialize all video adapters in system
4Bh		QuietBoot start (optional)
4Ch		Shadow video BIOS ROM
4Eh		Display BIOS copyright notice
50h		Display CPU type and speed
51h		Initialize EISA board
52h		Test keyboard
54h		Set key click if enabled
58h	2-2-3-1	Test for unexpected interrupts
59h		Initialize POST display service
5Ah		Display prompt "Press F2 to enter SETUP"
5Bh		Disable CPU cache
5Ch		Test RAM between 512 and 640 KB
60h		Test extended memory
62h		Test extended memory address lines
64h		Jump to User Patch1
66h		Configure advanced cache registers
67h		Initialize Multi Processor APIC
68h		Enable external and CPU caches
69h		Setup System Management Mode (SMM) area
6Ah		Display external L2 cache size
6Bh		Load custom defaults (optional)
6Ch		Display shadow-area message
6Eh		Display possible high address for UMB recovery
70h		Display error messages
72h		Check for configuration errors
76h		Check for keyboard errors
7Ch		Set up hardware interrupt vectors
7Eh		Initialize coprocessor if present
80h		Disable onboard Super I/O ports and IRQs
81h		Late POST device initialization

Code	Beeps	POST Routine Description
82h		Detect and install external RS232 ports
83h		Configure non-MCD IDE controllers
84h		Detect and install external parallel ports
85h		Initialize PC-compatible PnP ISA devices
86h		Re-initialize onboard I/O ports
87h		Configure Motherboard Configurable Devices (optional)
88h		Initialize BIOS Area
89h		Enable Non-Maskable Interrupts (NMIs)
8Ah		Initialize Extended BIOS Data Area
8Bh		Test and initialize PS/2 mouse
8Ch		Initialize floppy controller
8Fh		Determine number of ATA drives (optional)
90h		Initialize hard-disk controllers
91h		Initialize local-bus hard-disk controllers
92h		Jump to UserPatch2
93h		Build MPTABLE for multi-processor boards
95h		Install CD ROM for boot
96h		Clear huge ES segment register
97h		Fixup Multi Processor table
98h	1-2	Search for option ROMs. One long, two short beeps on checksum failure.
99h		Check for SMART drive (optional)
9Ah		Shadow option ROMs
9Ch		Set up Power Management
9Dh		Initialize security engine (optional)
9Eh		Enable hardware interrupts
9Fh		Determine number of ATA and SCSI drives
A0h		Set time of day
A2h		Check key lock
A4h		Initialize Typematic rate
A8h		Erase F2 prompt
AAh		Scan for F2 key stroke
ACh		Enter SETUP
AEh		Clear Boot flag
B0h		Check for errors
B2h		POST done- prepare to boot operating system
B4h	1	One short beep before boot
B5h		Terminate QuietBoot (optional)
B6h		Check password (optional)

Code	Beeps	POST Routine Description
B9h		Prepare Boot
BAh		Initialize DMI parameters
BBh		Initialize PnP Option ROMs
BCh		Clear parity checkers
BDh		Display MultiBoot menu
BEh		Clear screen (optional)
BFh		Check virus and backup reminders
C0h		Try to boot with INT 19
C1h		Initialize POST Error Manager (PEM)
C2h		Initialize error logging
C3h		Initialize error display function
C4h		Initialize system error handler
C5h		PnPd dual CMOS (optional)
C6h		Initialize notebook docking (optional)
C7h		Initialize notebook docking late
C8h		Force check (optional)
C9h		Extended checksum (optional)
D2h		Unknown interrupt

Code	Beeps	
E0h		Initialize the chipset
E1h		Initialize the bridge
E2h		Initialize the CPU
E3h		Initialize the system timer
E4h		Initialize system I/O
E5h		Check force recovery boot
E6h		Checksum BIOS ROM
E7h		Go to BIOS
E8h		Set Huge Segment
E9h		Initialize Multi Processor
EAh		Initialize OEM special code
EBh		Initialize PIC and DMA
EC <sub>h</sub>		Initialize Memory type
EDh		Initialize Memory size
EEh		Shadow Boot Block
EFh		System memory test
F0h		Initialize interrupt vectors
F1h		Initialize Run Time Clock
F2h		Initialize video
F3h		Initialize System Management Mode
F4h	1	Output one beep before boot

---

<b>Code</b>	<b>Beeps</b>	
F5h		Boot to Mini DOS
F6h		Clear Huge Segment
F7h		Boot to Full DOS

# Index of Symptom-to-FRU Error Message

## LCD-Related Symptoms

Symptom / Error	Action in Sequence
LCD backlight doesn't work LCD is too dark LCD brightness cannot be adjusted LCD contrast cannot be adjusted	Enter BIOS Utility to execute "Load Setup Default Settings", then reboot system. Reconnect the LCD connectors. Keyboard (if contrast and brightness function key doesn't work). LCD inverter ID LCD cable LCD inverter LCD System board
Unreadable LCD screen Missing pels in characters Abnormal screen Wrong color displayed	Reconnect the LCD connector LCD inverter ID LCD cable LCD inverter LCD System board
LCD has extra horizontal or vertical lines displayed.	LCD inverter ID LCD inverter LCD cable LCD System board

## Indicator-Related Symptoms

Symptom / Error	Action in Sequence
Indicator incorrectly remains off or on, but system runs correctly	Reconnect the inverter board Inverter board System board

## Power-Related Symptoms

Symptom / Error	Action in Sequence
Power shuts down during operation	Power source (battery pack and power adapter). See "Power System Check" on page 99. Battery pack Power adapter Hard drive & battery connection board System board
The system doesn't power-on.	Power source (battery pack and power adapter). See "Power System Check" on page 99. Battery pack Power adapter Hard drive & battery connection board System board

## Power-Related Symptoms

Symptom / Error	Action in Sequence
The system doesn't power-off.	Power source (battery pack and power adapter). See "Power System Check" on page 99. Hold and press the power switch for more than 4 seconds. System board
Battery can't be charged	See "Check the Battery Pack" on page 101. Battery pack System board

## PCMCIA-Related Symptoms

Symptom / Error	Action in Sequence
System cannot detect the PC Card (PCMCIA)	PCMCIA slot assembly System board
PCMCIA slot pin is damaged.	PCMCIA slot assembly

## Memory-Related Symptoms

Symptom / Error	Action in Sequence
Memory count (size) appears different from actual size.	Enter BIOS Setup Utility to execute "Load Default Settings, then reboot system. DIMM System board

## Speaker-Related Symptoms

Symptom / Error	Action in Sequence
In Windows, multimedia programs, no sound comes from the computer.	Audio driver Speaker System board
Internal speakers make noise or emit no sound.	Speaker System board

## Power Management-Related Symptoms

Symptom / Error	Action in Sequence
The system will not enter hibernation	See "Save to Disk (S4)" on page 33. Keyboard (if control is from the keyboard) Hard disk drive System board
The system doesn't enter hibernation mode and four short beeps every minute.	Press Fn+ <b>0</b> and see if the computer enters hibernation mode. Touchpad Keyboard Hard disk connection board Hard disk drive System board
The system doesn't enter standby mode after closing the LCD	See "Save to Disk (S4)" on page 33. LCD cover switch System board

## Power Management-Related Symptoms

Symptom / Error	Action in Sequence
The system doesn't resume from hibernation mode.	See "Save to Disk (S4)" on page 33. Hard disk connection board Hard disk drive System board
The system doesn't resume from standby mode after opening the LCD.	See "Save to Disk (S4)" on page 33. LCD cover switch System board
Battery fuel gauge in Windows doesn't go higher than 90%.	Remove battery pack and let it cool for 2 hours. Refresh battery (continue use battery until power off, then charge battery). Battery pack System board
System hangs intermittently.	Reconnect hard disk/CD-ROM drives. Hard disk connection board System board

## Peripheral-Related Symptoms

Symptom / Error	Action in Sequence
System configuration does not match the installed devices.	Enter BIOS Setup Utility to execute "Load Default Settings", then reboot system. Reconnect hard disk/CD-ROM/diskette drives.
External display does not work correctly.	Press Fn+F5, LCD/CRT/Both display switching System board
USB does not work correctly	System board
Print problems.	Ensure the "Parallel Port" in the "Onboard Devices Configuration" of BIOS Setup Utility is set to Enabled. Onboard Devices Configuration Run printer self-test. Printer driver Printer cable Printer System Board
Serial or parallel port device problems.	Ensure the "Serial Port" in the "Devices Configuration" of BIOS Setup Utility is set to Enabled. Device driver Device cable Device System board

## Keyboard/Touchpad-Related Symptoms

Symptom / Error	Action in Sequence
Keyboard (one or more keys) does not work.	Reconnect the keyboard cable. Keyboard System board

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### Keyboard/Touchpad-Related Symptoms

Symptom / Error	Action in Sequence
Touchpad does not work.	Reconnect touchpad cable. Touchpad board System board

### Modem-Related Symptoms

Symptom / Error	Action in Sequence
Internal modem does not work correctly.	Modem phone port modem combo board System board

**NOTE:** If you cannot find a symptom or an error in this list and the problem remains, see "Undetermined Problems" on page 116.

---

## Intermittent Problems

Intermittent system hang problems can be caused by a variety of reasons that have nothing to do with a hardware defect, such as: cosmic radiation, electrostatic discharge, or software errors. FRU replacement should be considered only when a recurring problem exists.

When analyzing an intermittent problem, do the following:

1. Run the advanced diagnostic test for the system board in loop mode at least 10 times.
2. If no error is detected, do not replace any FRU.
3. If any error is detected, replace the FRU. Rerun the test to verify that there are no more errors.

---

# Undetermined Problems

The diagnostic problems does not identify which adapter or device failed, which installed devices are incorrect, whether a short circuit is suspected, or whether the system is inoperative.

Follow these procedures to isolate the failing FRU (do not isolate non-defective FRU).

**NOTE:** Verify that all attached devices are supported by the computer.

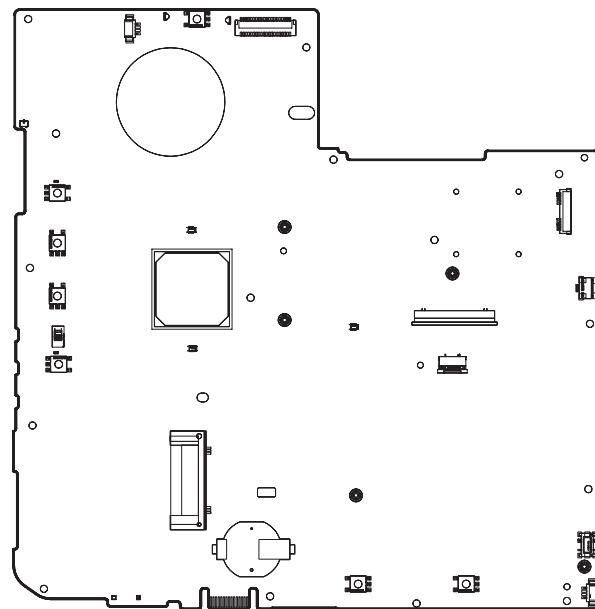
**NOTE:** Verify that the power supply being used at the time of the failure is operating correctly. (See "Power System Check" on page 99.).

1. Power-off the computer.
2. Visually check them for damage. If any problems are found, replace the FRU.
3. Remove or disconnect all of the following devices:
  - q Non-Acer devices
  - q Printer, mouse, and other external devices
  - q Battery pack
  - q Hard disk drive
  - q DIMM
  - q CD-ROM/Diskette drive Module
  - q PC Cards
4. Power-on the computer.
5. Determine if the problem has changed.
6. If the problem does not recur, reconnect the removed devices one at a time until you find the failing FRU.
7. If the problem remains, replace the following FRU one at a time. Do not replace a non-defective FRU:
  - q System board
  - q LCD assembly

## Jumper and Connector Locations

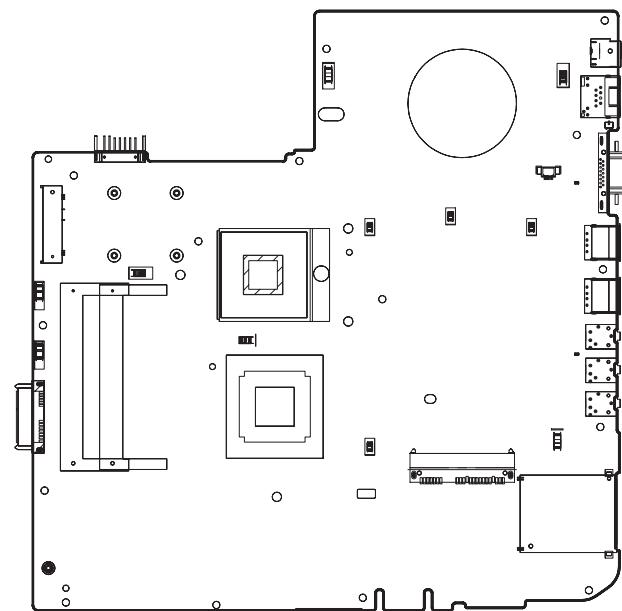
### Top and Bottom View

TOP VIEW TOP SIDE



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## BOTTOM VIEW BOTTOM SIDE



# Clearing Password Check and BIOS Recovery

This section provide you the standard operating procedures of clearing password and BIOS recovery for Aspire 5730Z/5330 Series. Aspire 5730Z/5330 Series provide one Hardware Open Gap on main board for clearing password check, and one Hotkey for enabling BIOS Recovery.

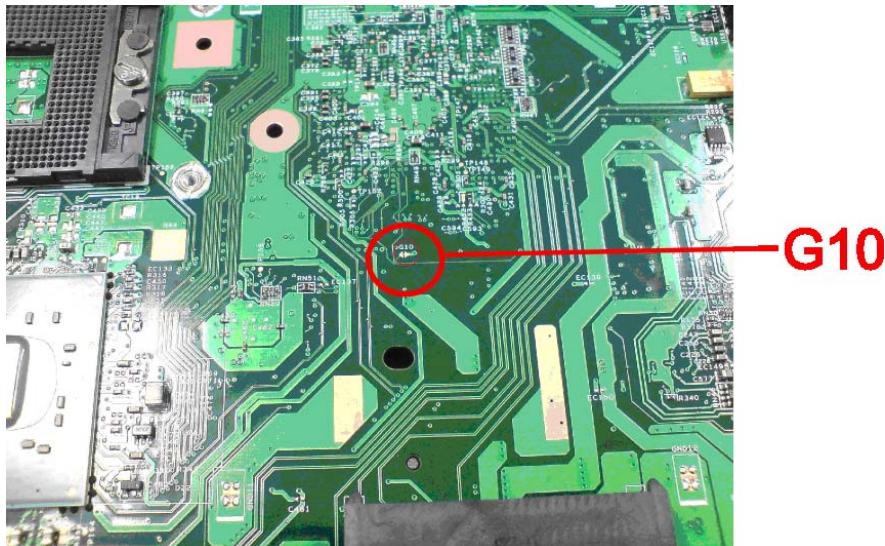
## Clearing Password Check

### Hardware Open Gap Description

Hardware	Default Setting	Operation Description
Gap	Open (Normal)	Short (Clearing Password Check)

### HW Gap position on M/B space:

Gap name in Aspire 5730Z/5330 Series is G10



### Steps for Clearing BIOS Password Check

If users set BIOS Password (Supervisor Password and/or User Password) for a security reason, BIOS will ask the password during systems POST or when systems enter to BIOS Setup menu. However, once it is necessary to bypass the password check, users need to short the HW Gap to clear the password by the following steps:

- Power Off a system, and remove HDD, AC and Battery from the machine.
- Open the back cover of the machine, and find out the HW Gap on M/B as picture.
- Use an electric conductivity tool to short the two points of the HW Gap.
- Plug in AC, keep the short condition on the HW Gap, and press Power Button to power on the system till BIOS POST finish. Then remove the tool from the HW Gap.
- Restart system. Press F2 key to enter BIOS Setup menu.
- If there is no Password request, BIOS Password is cleared. Otherwise, please follow the steps and try again.

**NOTE:** The steps are only for clearing BIOS Password (Supervisor Password and User Password).

---

## BIOS Recovery by Crisis Disk

### BIOS Recovery Boot Block:

BIOS Recovery Boot Block is a special block of BIOS. It is used to boot up the system with minimum BIOS initialization. Users can enable this feature to restore the BIOS firmware to a successful one once the previous BIOS flashing process failed.

### BIOS Recovery Hotkey:

The system provides a function hotkey: **Fn+Esc**, for enable BIOS Recovery process when system is powered on during BIOS POST. To use this function, it is strongly recommended to have the AC adapter and Battery present. If this function is enabled, the system will force the BIOS to enter a special BIOS block, called Boot Block.

### Steps for BIOS Recovery by Crisis Disk:

Before doing this, one Crisis Disk should be prepared ready in hand. The Crisis Disk could be made by executing the Crisis Disk program in another system with Windows XP OS.

Follow the steps below:

1. Power Off system.
2. Insert the Crisis Disk to a USB floppy drive which is attached to the BIOS flash failed machine.
3. In the power-off state, press **Fn+Esc** and hold them and then press Power Button. The system should be powered on with Crisis BIOS Recovery process.
4. BIOS Boot Block starts to restore the BIOS code from the Crisis floppy disk to BIOS ROM on the failed machine.
5. If the Crisis flashing process is finished, the system will restart.

If the Crisis Recovery process is finished, the system should be powered on with successful and workable BIOS. Then a person can update the latest version BIOS for this machine by regular BIOS flashing process.

## FRU (Field Replaceable Unit) List

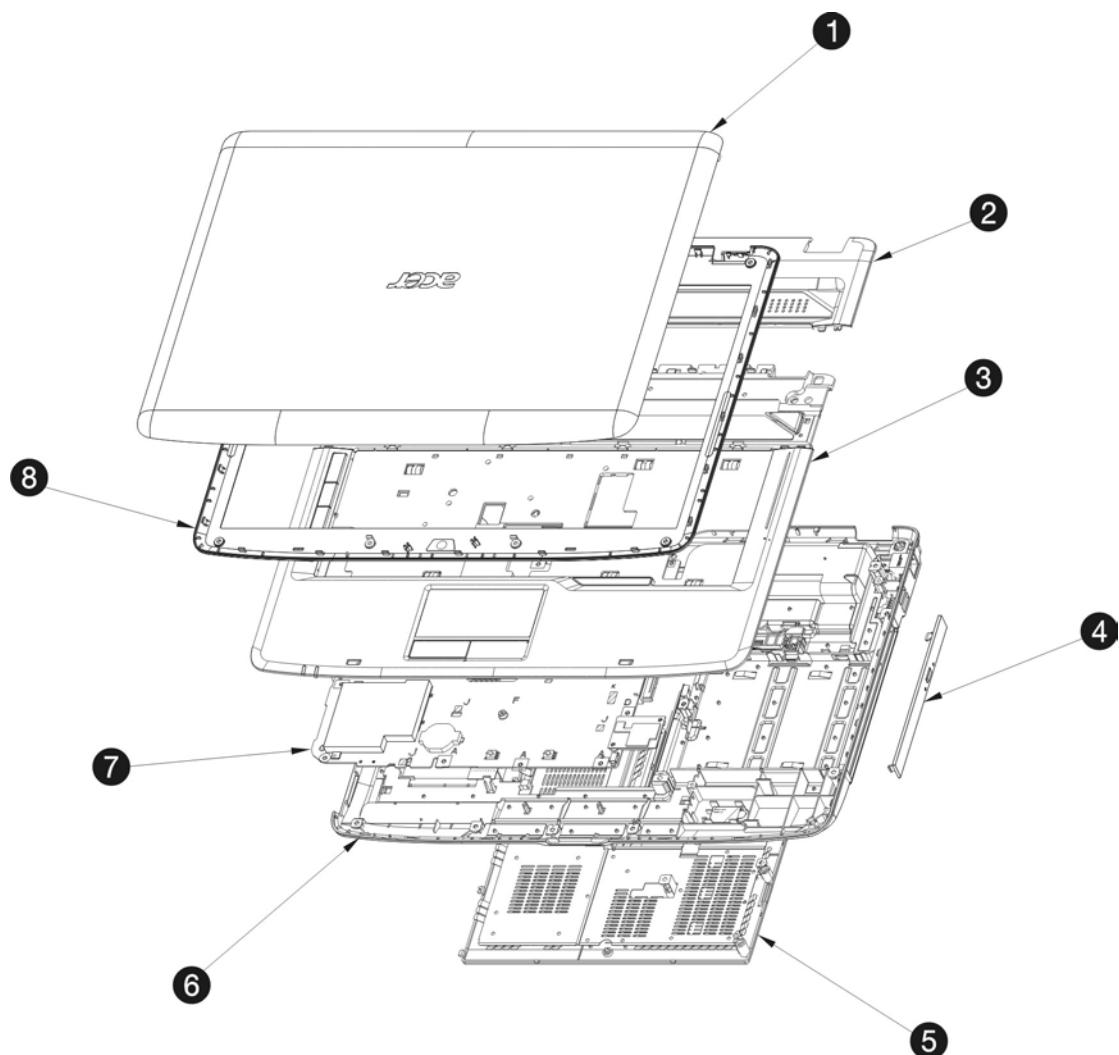
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This chapter gives you the FRU (Field Replaceable Unit) listing in global configurations of 5235/5535 Series. Refer to this chapter whenever ordering for parts to repair or for RMA (Return Merchandise Authorization).

Please note that WHEN ORDERING FRU PARTS, you should check the most up-to-date information available on your regional web or channel. For whatever reasons a part number change is made, it will not be noted on the printed Service Guide. For ACER AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code from those given in the FRU list of this printed Service Guide. You MUST use the local FRU list provided by your regional Acer office to order FRU parts for repair and service of customer machines.

NOTE: To scrap or to return the defective parts, you should follow the local government ordinance or regulations on how to dispose it properly, or follow the rules set by your regional Acer office on how to return it.

# Aspire 5235/5535 Series Exploded Diagram



NO	PARTNO	DESCRIPTION	Q'TY	REV	REMARK
1	60.4J502.001	Lcdpanelassycp	1	0A	
2	60.4J503.001	Ucaseassycp	1	0A	
3	60.4J507.001	Middlecoverassycp	1	0A	
4	60.4T914.001	Oddbezelassycp	1	0A	
5	60.4J509.001	Bigdoorassycp	1	0A	
6	60.4J508.001	Lcaseassycp	1	0A	
7	CP.MB_SM.	CP_MB	1	0A	
8	60.4J501.001	Lcdbezelassycp	1	0A	

## Aspire 5235/5535 Series FRU List

CATEGORY	No.	PART NAME	DESCRIPTION	ACER OEM PURCHASE NO
ADAPTER				
		ADAPTER 65W DELTA SADP-65KB DFA LF LEVEL-4	ADT 65W SADP-65KB DFA LF DELTA	AP.06501.013
		ADAPTER 65W 3PIN DELTA SADP- 65KB BFJA LF LEVEL-4 FOR OBL ONLY	ADP 65W 3P SADP-65KB BFJA DELT	AP.06501.014
		ADAPTER 65W LITEON PA-1650- 02AC LF LEVEL-4	ADT 65W PA-1650-02AC LF	AP.06503.016
		ADAPTER 65W HIPRO HP- OK065B13 LF LEVEL-4	ADP 65W 3P HP- OK065B13LF	AP.0650A.010
BATTERY				
		BATTERY SIMPL AS-2007A LI-ION 3S2P LGC 6 CELL 2150MAH 2ND COMMON	BTY PACK LG LI+ 6C 2.2AH SMP	BT.00607.019
		BATTERY SANYO AS-2007A LI-ION 3S2P SANYO 6 CELL 4400MAH MAIN COMMON NORMAL TYPE	BTY PACK LI+ 6C 2.2AH SANYO	BT.00603.041
		BATTERY SONY AS-2007A LI-ION 3S2P SONY 6 CELL 4400MAH MAIN COMMON NORMAL TYPE	BTY PACK LI+ 6C 2.2AH SONY	BT.00604.024
		BATTERY PANASONIC AS- 2007A LI-ION 3S2P PANASONIC 6 CELL 4400MAH MAIN COMMON PSS	BTY PACK LI+ 6C 2.2AH PANA	BT.00605.020
		BATTERY SIMPL AS-2007A LI-ION 3S2P SAMSUNG 6 CELL 4400MAH MAIN COMMON SDI 2.2MAH F TYPE	BTY PACK SDI LI+ 6C 2.2AH SMP	BT.00607.034
BOARDS				
		LAUNCH & LED BOARD	CP2 PD 08575-1 LUNCH & LED DIP	55.ATR01.001
		BLUETOOTH BOARD FOXCONN BCM2045 V2 T60H928.11	BT MOD FOXCONN BCM2045 V2	BT.21100.005

CATEGORY	No.	PART NAME	DESCRIPTION	ACER OEM PURCHASE NO
		TOUCHPAD BOARD SYNAPTICS TM00540-005	TOUCHPAD SYNAPTICS TM00540-005	56.ATR01.001
		WIRELESS LAN BOARD 512AN_MMWG SHIRLEY PEAK 5100 MM#895361	WLAN 802.11ABGN SHIRLEYPEAK1*2	KI.SPM01.003
		WIRELESS LAN BOARD 512AG_MMWG SHIRLEY PEAK 5100 MM#897004	WLAN 802.11ABG SHIRLEYPEAK1*2	KI.SPM01.005
		WIRELESS LAN BOARD 533AN_MMWG SHIRLEY PEAK MM#895362	WLAN 802.11ABGN SHIRLEYPEAK3*3	KI.SPM01.001
CABLES				
		POWER CORD 3A 250V 3PIN UK	CODE UK 2.5A 250V 3P BK	27.01518.541
		POWER CORD 5A 250V 3PIN UK BK	CODE 5A 250V 3P UK BK	27.03118.001
		POWER CORD 250V 3PIN EUR BK	CORD EUR 250V 3P BK	27.T30V1.004
		POWER CABLE 16A 250V 3PIN EUR BK	CORD 16A 250V 3P EUR BK	27.01518.731
		POWER CORD 10A 125V US	CODE US 7A 125V BK	27.T30V1.001
		POWER CORD 10A 125V 3PIN US BK	CODE 10A 125V 3P US BK	27.01518.641
		POWER CORD 10A 250V ARGENTINE	CORD ARGENTINE,10A 250V3G,1.8M	27.01518.0U1
		POWER CORD 7A 250V 2PIN KOREAN	CORD 7A250V 2P 1830 KOREAN	27.01518.531
		POWER CORD 7A 125V 2PIN JAPEN	CODE JAPAN 7A 125V 2P BK	27.01518.551
		POWER CORD 10A 3PIN BK DENMARK	CODE DENMARK 2.5A 250V 3P BK	27.01518.561
		POWER CORD 10A 250V 3PIN DENMARK BK	CODE 10A 250V 3P DENMARK BK	27.01518.671
		POWER CORD 10A 250V 3PIN BK SOUTH AFRICA	CODE SOUTH AFRICA 16A 250V BK	27.01518.571
		POWER CORD 16A 250V SOUTH AFRICA BK	CODE 16A 250V SOUTH AFRICA BK	27.01518.681
		POWER CORD 10A 250V SWISS	CODE SWISS 2.5A 250V 3P BK	27.01518.581
		POWER CORD 10A 250V 3PIN SWISS BK	CODE 10A 250V 3P SWISS BK	27.01518.691

CATEGORY	No.	PART NAME	DESCRIPTION	ACER OEM PURCHASE NO
		POWER CORD 10A 250V 3PIN CHINA	CORD CHINA 10A 250V 3P	27.01518.591
		POWER CORD 10A 250V 3PIN CHINA BK	CORD 10A 250V 3P CHINA BK	27.01518.701
		POWER CORD 10A 250V 3PIN ITALY	CORD ITALY 10A 250V 3P BK	27.01518.611
		POWER CORD 10A 250V 3PIN ITALY BK	CORD 10A 250V 3P ITALY BK	27.01518.711
		POWER CORD 2.5A 250V AUSTRALIA	CORD 2.5A 250V AUSTRALIA BK	27.01518.621
		POWER CORD 7A 125V 2PIN JAPAN BK	CODE 7A 125V 2P JAPAN BK	27.01518.661
		POWER CORD 2.5A 250V SOUTH AFRICA BK (INDIA)	CORD 2.5A 250V SOUTH AFRICA BK	27.01518.631
		POWER CORD 10A 250V SOUTH AFRICA BK (INDIA)	CORD 6A 250V SOUTH AFRICA BK	27.01518.721
		POWER CORD 250V 10A 3PIN ISRAEL	CORD 250V 10~16A 3P ISRAEL	27.01518.761
		POWER CORD 2.5A 125V USA	CORD USA/W CNS 2.5A 125V 8121-	27.01518.781
		POWER CORD ACA / ACNZ	POWER CODE ACA / ACNZ ANNIE	27.03218.021
		POWER CODE 7A 125V 2PIN JAPAN	CODE 7A 125V JAPAN 2PIN BK	27.03518.161
		BLUETOOTH BOARD CALBE	C.A. BT CABLE CP2 MEC	50.ATR01.002
		BLUETOOTH BOARD CALBE	C.A. BLUETOOTH CABLE CP2 WS	50.ATR01.002
		BLUETOOTH BOARD CALBE	C.A. BT CABLE CP2 HL	50.ATR01.002
		BLUETOOTH BOARD CALBE	C.A. BLUETOOTH CABLE CP2 HT	50.ATR01.002
		TOUCHPAD BOARD CABLE	C.A. T/P FFC CP2 JH	50.ATR01.001
		TOUCHPAD BOARD CABLE	C.A. T/P FFC CP2 TR	50.ATR01.001
CASE/COVER/BRACKET ASSEMBLY				
		EXPRESS DUMMY CARD	EXPRESS DUMMY CARD CP2	42.ATR01.003
		CARD READER DUMMY CARD	CARD READER DUMMY CARD HOMA	42.TQ901.003
		UNITLOAD COVER	60 BIGDOOR ASSY CP2	42.ATR01.002
		MIDDLE COVER	60 ASSY MIDDLE COVER CP2	42.ATR01.001
		TOUCHPAD BRACKET	60 ASSY TP BKT CP2	33.ATR01.001

CATEGORY	No.	PART NAME	DESCRIPTION	ACER OEM PURCHASE NO
		LOWER CASE W/ DC-IN CABLE&MODEM CABLE&SPEAKER RIGHT	60 LCASE ASSY CP2	60.ATR01.001
CABLES				
		DC-IN CABLE	C.A. DC IN CABLE CP2 MEC	RESERVE
		DC-IN CABLE	C.A. DC IN CABLE CP2 HL	RESERVE
		DC-IN CABLE	C.A. DC IN CABLE CP2 HT	RESERVE
		MODEM CABLE	C.A. RJ11 CABLE CP2 MEC	RESERVE
		MODEM CABLE	RJ11 CABLE CP2 HL	RESERVE
		MODEM CABLE	C.A. RJ11 CABLE CP2 HT	RESERVE
SPEAKER				
		SPEAKER RIGHT	SPEAKER R CP2	23.ATR01.001
		SPEAKER RIGHT	SPEAKER RIGHT CP2 YG	23.ATR01.001
		SPEAKER RIGHT	SPEAKER RIGHT CP2 ZYLUX	23.ATR01.001
CASE/COVER/BRACKET ASSEMBLY				
		UPPER CASE W/ LAUNCH BOARD CABLE&MICROPH ONE&SPEAKER LEFT	ASSY CAS U CP2	60.ATR01.002
CABLES				
		LAUNCH BOARD CALBE	C.A. LAUNCH BD FFC CP2 JH	RESERVE
		LAUNCH BOARD CALBE	C.A. LAUNCH BD FFC TR	RESERVE
MICROPHONE		MICROPHONE	MICROPHONE CP2 SM	RESERVE
MICROPHONE		MICROPHONE	MICROPHONE CP2 FG	RESERVE
MICROPHONE		MICROPHONE	MICROPHONE CP2 GOERTEK	RESERVE
MICROPHONE		MICROPHONE	MICROPHONE CP2 HIT	RESERVE
SPEAKER		SPEAKER LEFT	SPEAKER L CP2	23.ATR01.002
SPEAKER		SPEAKER LEFT	SPEAKER LEFT CP2 YG	23.ATR01.002
SPEAKER		SPEAKER LEFT	SPEAKER LEFT CP2 ZYLUX	23.ATR01.002
CPU/PROCESSOR		CPU AMD ATHLON64X2 QL60 PGA 1.9G 1M 638 35W GRIFFIN B1	IC CPU ATHLON QL-60 1.9G	KC.AQL02.600
CPU/PROCESSOR		CPU AMD ATHLON64X2 QL62 PGA 1.9G 1M 638 35W GRIFFIN B1	IC CPU ATHLON QL-62 2.0G	KC.AQL02.620

CATEGORY	No.	PART NAME	DESCRIPTION	ACER OEM PURCHASE NO
CPU/PROCESSOR		CPU AMD TURIONX2 RM70 PGA 2.0G 1M 638 35W GRIFFIN B1	IC CPU TURION RM-70 2.0G	KC.TRM02.700
CPU/PROCESSOR		CPU AMD TURIONX2 RM72 PGA 2.0G 1M 638 35W GRIFFIN B1	IC CPU TURION RM-72 2.1G	KC.TRM02.720
CPU/PROCESSOR		CPU AMD TURIONX2 ZM80 PGA 2.1G 2M 638 35W GRIFFIN B1	IC CPU TURION ULTRA ZM-80 2.1G	KC.TZM02.800
CPU/PROCESSOR		CPU AMD TURIONX2 ZM82 PGA 2.2G 2M 638 35W GRIFFIN B1	IC CPU TURION ULTRA ZM-82 2.2G	KC.TZM02.820
CPU/PROCESSOR		CPU AMD SEMPRON SI-40 PGA 2.0G 512K 638 25W GRIFFIN B1	IC CPU SEMPRON SI-40 2.0G (for Aspire 5235 only)	KC.SSI02.400 (for Aspire 5235 only)
DVD-RW DRIVE		DVD-RW SUPER-MULTI MODULE 8X SATA	ODD NSM8XS SUPER-MULTI DRIVE	6M.ATR01.001
CASE/COVER/BRACKET ASSEMBLY		OPTICAL BRACKET	ODD BRK CP2	33.ATR01.002
CASE/COVER/BRACKET ASSEMBLY		SUPER MULIT BEZEL	60 ODD BEZEL CP2	42.ATR01.004
DVD-RW DRIVE		ODD SONY SUPER-MULTI DRIVE 12.7MM TRAY DL 8X AD-7580S LF W/O BEZEL SATA	S-MULTI SATA SONY AD-7580S	KU.0080E.017
DVD-RW DRIVE		ODD PIONEER SUPER-MULTI DRIVE 12.7MM TRAY DL 8X DVR-TD08RS LF W/O BEZEL SATA	S-MUL SATA PIONEER DVR-TD08RS	KU.00805.046
DVD-RW DRIVE		ODD TOSHIBA SUPER-MULTI DRIVE 12.7MM TRAY DL 8X TS-L633A LF W/O BEZEL SATA	S-MUL SATA TSST/TS-L633A OLAN	KU.00801.021
DVD-RW DRIVE		ODD HLDS SUPER-MULTI DRIVE 12.7MM TRAY DL 8X GT10N LF W/O BEZEL SATA	ODD S-MUL SATA HLDS GT10N	KU.0080D.039
DVD-RW DRIVE		ODD PLDS SUPER-MULTI DRIVE 12.7MM TRAY DL 8X DS-8A2S LF W/ O BEZEL SATA	S-MULTI SATA PLDS/DS-8A2S OLAN	KU.0080F.001
HDD/HARD DISK DRIVE		HDD MODULE 120G 5400RPM SATA	HDD 120GB5.4KS FOR CP2	TBD

CATEGORY	No.	PART NAME	DESCRIPTION	ACER OEM PURCHASE NO
CASE/COVER/BRACKET ASSEMBLY		HDD BRACKET	60 HDD BRK ASSY CP2	33.ATR01.003
HDD/HARD DISK DRIVE		HDD 120GB 5400RPM SATA SEAGATE ST9120817AS LF F/W:3.AAA	HDD 120GB SGT SATA ST9120817AS	KH.12001.032
HDD/HARD DISK DRIVE		HDD 120GB 5400RPM SATA HGST HT543212L9A300 FW:C40C	HDD 120GB HT543212L9A300 C40C	KH.12007.016
HDD/HARD DISK DRIVE		HDD 120GB 5400RPM SATA WD WD1200BEVS-22UST0 ML125 LF F/W:01.01A01	HDD 120GB WD WD1200BEVS-22UST0	KH.12008.019
HDD/HARD DISK DRIVE		HDD MODULE 160G 5400RPM SATA	HDD 160GB5.4KS FOR CP2	TBD
CASE/COVER/BRACKET ASSEMBLY		HDD BRACKET	60 HDD BRK ASSY CP2	33.ATR01.003
HDD/HARD DISK DRIVE		HDD 160GB 5400RPM SATA HGST HTS543216L9A300 F/W:C30C	HDD 160GB HGST HTS543216L9A300	KH.16007.019
HDD/HARD DISK DRIVE		HDD 160GB 5400RPM SATA WD WD1600BEVT-22ZCT0 FW:11.01A11	HDD 160GB WD WD1600BEVT-22ZCT0	KH.16008.022
HDD/HARD DISK DRIVE		HDD 160GB 5400RPM SATA SEAGATE ST9160310AS F/W:2010	HDD 160GB SEAGATE ST9160310AS	KH.16001.034
HDD/HARD DISK DRIVE		HDD 160GB 5400RPM SATA TOSHIBA MK1652GSX FW:LV010J	HDD 160G TOSHIBA MK1652GSX	KH.16004.003
HDD/HARD DISK DRIVE		HDD MODULE 250G 5400RPM SATA	HDD 250GB5.4KS FOR CP2	TBD
CASE/COVER/BRACKET ASSEMBLY		HDD BRACKET	60 HDD BRK ASSY CP2	33.ATR01.003
HDD/HARD DISK DRIVE		HDD 250GB 5400RPM SATA HGST HTS543225L9A300 LF F/W:C40C	HDD 250GB HGST HTS543225L9A300	KH.25007.013
HDD/HARD DISK DRIVE		HDD 250GB 5400RPM SATA WD WD2500BEVS-22UST0 ML125 F/W:01.01A01	HDD 250GB WD WD2500BEVS-22UST0	KH.25008.018

CATEGORY	No.	PART NAME	DESCRIPTION	ACER OEM PURCHASE NO
HDD/HARD DISK DRIVE		HDD 250GB 5400RPM SATA SEAGATE ST9250827AS F/W:2.ALA	HDD 250GB SGT SATA ST9250827AS	KH.25001.011
HDD/HARD DISK DRIVE		HDD 250GB 5400RPM SATA TOSHIBA MK2552GSX F/W:LV01J	HDD 250GB TOSHIBA MK2552GSX	KH.25004.002
HDD/HARD DISK DRIVE		HDD MODULE 320G 5400RPM SATA	HDD 320GB5.4KS FOR CP2	TBD
CASE/COVER/BRACKET ASSEMBLY		HDD BRACKET	60 HDD BRK ASSY CP2	33.ATR01.003
HDD/HARD DISK DRIVE		HDD 320GB 5400RPM SATA HGST HTS543232L9A300 F/W:C30C	HDD 320GB HGST HTS543232L9A300	KH.32007.004
HDD/HARD DISK DRIVE		HDD 320GB 5400RPM SATA SEAGATE ST9320320AS F/W:2010	HDD 320GB SEAGATE ST9320320AS	KH.32001.008
HDD/HARD DISK DRIVE		HDD 320GB 5400RPM SATA TOSHIBA MK3252GSX F/W:LV01J	HDD 320GB TOSHIBA MK3252GSX	KH.32004.001
HDD/HARD DISK DRIVE		HDD 320GB 5400RPM SATA WD WD3200BEVT-22ZCT0 ML125 F/W:01.01A01	HDD 320GB WD WD3200BEVT-22ZCT0	KH.32008.013
HEATSINK		CPU HEATSINK W/ FAN	ASSY THERMAL UMA CP2 ROBIN	60.ATR01.003
HEATSINK		CPU HEATSINK W/ FAN	ASSY THERMAL UMA CP2 FOXCONN	60.ATR01.003
HEATSINK		CPU HEATSINK W/ FAN	ASSY THERMAL UMA CP2 CCI	60.ATR01.003
HEATSINK		CPU HEATSINK W/ FAN	THERMAL CP2 FOXCONN FORCECON	60.ATR01.003
HEATSINK		CPU HEATSINK W/ FAN	ASSY THERMAL UMA CP2 ROBIN S	60.ATR01.003
HEATSINK		CPU HEATSINK W/ FAN	ASSY THERMAL UMA CP2 CCI S	60.ATR01.003
KEYBOARD		KEYBOARD 17KB-FV5 BLACK 106KS UK	KB DARFON NSK-AFF0U UK UK	KB.I1700.006
KEYBOARD		KEYBOARD 17KB-FV5 BLACK 106KS SLO/CRO	KB DARFON NSK-AFF1F SL SLOVENI	KB.I1700.013
KEYBOARD		KEYBOARD 17KB-FV5 BLACK 105KS US INTERNATIONAL	KB DARFON NSK-AFF1D UI US-INTL	KB.I1700.004

CATEGORY	No.	PART NAME	DESCRIPTION	ACER OEM PURCHASE NO
KEYBOARD		KEYBOARD 17KB-FV5 BLACK 105KS US INTERNATIONAL HEBREW	KB.DARFON NSK-AFF0H HE HEBREW	KB.I1700.005
KEYBOARD		KEYBOARD 17KB-FV5 BLACK 106KS TURKISH	KB.DARFON NSK-AFF0T TR TURKISH	KB.I1700.007
KEYBOARD		KEYBOARD 17KB-FV5 BLACK 105KS THAILAND	KB.DARFON NSK-AFF03 TH THAI	KB.I1700.008
KEYBOARD		KEYBOARD 17KB-FV5 BLACK 106KS SWISS/G	KB.DARFON NSK-AFF00 SW SWISS	KB.I1700.009
KEYBOARD		KEYBOARD 17KB-FV5 BLACK 106KS SWEDISH	KB.DARFON NSK-AFF0W SE SWEDISH	KB.I1700.010
KEYBOARD		KEYBOARD 17KB-FV5 BLACK 106KS SPANISH	KB.DARFON NSK-AFF0S SP SPANISH	KB.I1700.011
KEYBOARD		KEYBOARD 17KB-FV5 BLACK 106KS SLOVAK	KB.DARFON NSK-AFF09 SK SLOVAK	KB.I1700.012
KEYBOARD		KEYBOARD 17KB-FV5 BLACK 105KS RUSSIAN	KB.DARFON NSK-AFF0R RU RUSSIAN	KB.I1700.014
KEYBOARD		KEYBOARD 17KB-FV5 BLACK 106KS PORTUGUESE	KB.DARFON NSK-AFF06 PT PORTUGA	KB.I1700.015
KEYBOARD		KEYBOARD 17KB-FV5 BLACK 106KS NORWEGIAN	KB.DARFON NSK-AFF0N NO NORWEGI	KB.I1700.017
KEYBOARD		KEYBOARD 17KB-FV5 BLACK 106KS ITALIAN	KB.DARFON NSK-AFF0E IT ITALIAN	KB.I1700.021
KEYBOARD		KEYBOARD 17KB-FV5 BLACK 106KS HUNGARIAN	KB.DARFON NSK-AFF0Q HU HUNGARI	KB.I1700.024
KEYBOARD		KEYBOARD 17KB-FV5 BLACK 105KS GREEK	KB.DARFON NSK-AFF0L GK GREEK	KB.I1700.025
KEYBOARD		KEYBOARD 17KB-FV5 BLACK 106KS GERMAN	KB.DARFON NSK-AFF0G GR GERMAN	KB.I1700.026
KEYBOARD		KEYBOARD 17KB-FV5 BLACK 106KS FRENCH	KB.DARFON NSK-AFF0F FR FRENCH	KB.I1700.027
KEYBOARD		KEYBOARD 17KB-FV5 BLACK 106KS DANISH	KB.DARFON NSK-AFF0D DK DANISH	KB.I1700.030
KEYBOARD		KEYBOARD 17KB-FV5 BLACK 106KS CZECH	KB.DARFON NSK-AFF0C CS CZECH	KB.I1700.031
KEYBOARD		KEYBOARD 17KB-FV5 BLACK 105KS TRADITIONAL CHINESE	KB.DARFON NSK-AFF02 TW TAIWAN	KB.I1700.032

CATEGORY	No.	PART NAME	DESCRIPTION	ACER OEM PURCHASE NO
KEYBOARD		KEYBOARD 17KB-FV5 BLACK 106KS CANADIAN FRENCH	KB DARFON NSK-AFF0M FC FR-CANA	KB.I1700.033
KEYBOARD		KEYBOARD 17KB-FV5 BLACK 106KS BRAZILIAN PORTUGUESE	KB DARFON NSK-AFF1B BP BRAZ-PT	KB.I1700.034
KEYBOARD		KEYBOARD 17KB-FV5 BLACK 106KS BELGIUM	KB DARFON NSK-AFF1A BE BELGIAN	KB.I1700.035
KEYBOARD		KEYBOARD 17KB-FV5 BLACK 105KS ARABIC/ENGLISH	KB DARFON NSK-AFF0A AR ARABIC	KB.I1700.036
KEYBOARD		KEYBOARD 17KB-FV5 BLACK 106KS ARABIC/FRENCH	KB DARFON NSK-AFF2A ARABIC-FR	KB.I1700.037
KEYBOARD		KEYBOARD 17KB-FV5 BLACK 106KS ENGLISH/ CANADIAN FRENCH	KB DARFON NSK-AFF2M FC-ENG	KB.I1700.039
KEYBOARD		KEYBOARD 17KB-FV5 BLACK 106KS CZECH/SLOVAK	KB DARFON NSK-AFF13 CS CZ/SK	KB.I1700.041
LCD		LCD MODULE 15.6" WXGA GLARE W/ ANTENNA*2 & 0.3M CAMERA	LCD N15.6WXGAG W/ CCD&ANT*2	6M.ATR01.002
BOARDS		INVERTER BOARD 17" DARFON VK.21189.408	INVERTER 17" ROHS VK.21189.407	19.TQ901.002
BOARDS		INVERTER BOARD FOXCONN T62I240.03 V.00	INVERTER 17" T62I240.03 06L1	19.AR501.002
BOARDS		INVERTER BOARD SUMIDA TWS-458-124 MS	INVERTER 17" TWS-458-124 MS	19.AUA01.002
BOARDS		INVERTER BOARD YEC YNV-W06C	INVERTER 17" YNV-W06C	19.AUA01.001
CABLES		LCD/CAMERA CABLE	C.A. LCD CABLE CCD CP2 MEC	50.ATR01.003
CABLES		LCD/CAMERA CABLE	C.A. LCD CABLE CCD CP2 WS	50.ATR01.003
CABLES		LCD/CAMERA CABLE	C.A. LCD CABLE CCD CP2 HL	50.ATR01.003
CABLES		LCD/CAMERA CABLE	C.A. LCD CABLE CCD CP2 HT	50.ATR01.003
CAMERA		CAMERA 0.3M SUYIN CN0314-SN30-OV03-1	CAMERA 0.3M CN0314-SN30-OV03-1	57.TQ901.001
CAMERA		CAMERA 0.3M BISON BN30V407-030 OV772	CAMERA 0.3M BN30V407-030 OV772	57.AU401.001
CASE/COVER/BRACKET ASSEMBLY		LCD BRACKET W/ HINGE RIGHT	HINGE LCD R CP2 LH	33.ATR01.004

CATEGORY	No.	PART NAME	DESCRIPTION	ACER OEM PURCHASE NO
CASE/COVER/BRACKET ASSEMBLY		LCD BRACKET W/ HINGE RIGHT	HINGE LCD R CP2 Szs	33.ATR01.004
CASE/COVER/BRACKET ASSEMBLY		LCD BRACKET W/ HINGE LEFT	HINGE LCD L CP2 LH	33.ATR01.005
CASE/COVER/BRACKET ASSEMBLY		LCD BRACKET W/ HINGE LEFT	HINGE LCD L CP2 Szs	33.ATR01.005
CASE/COVER/BRACKET ASSEMBLY		LCD COVER 15.6" W/ANTENNA*2	ASSY LCD PANEL 1X2 CP2	60.ATR01.005
CASE/COVER/BRACKET ASSEMBLY		LCD BEZEL 15.6" W/CAMERA HOLE	ASSY LCD BEZEL CP2	60.ATR01.004
LCD		LCD AUO 15.6" WXGA GLARE AUO B156XW01 V0 LF 220NIT 8MS	LCD 15.6"WXGA AU B156XW01 V0 G	LK.15605.001
LCD		LCD AUO 15.6" WXGA GLARE AUO B156XW01 V0 1A LF 220NIT 8MS 500:1	LCD 15.6"WXGA AU B156XW01 V0 G	LK.15605.002
LCD		LCD AUO 15.6" WXGA GLARE LG LP156WH1-TLA1LF 220NIT 8MS 400:1	LCD 15.6"WXGA LG LP156WH1-TLA1	LK.15608.001
LCD		LCD AUO 15.6" WXGA GLARE CMO N156B3-L02 LF 220NIT 8MS	LCD 15.6"WXGA CMO N156B3-L02 G	LK.1560D.001
LCD		LCD MODULE 15.6" WXGA GLARE W/ ANTENNA*3 & 0.3M CAMERA	LCD N15.6WXGAG W/ CCD&ANT*3	6M.ATR01.003
BOARDS		INVERTER BOARD 17" DARFON VK.21189.407	INVERTER 17" ROHS VK.21189.407	19.TQ901.002
BOARDS		INVERTER BOARD FOXCONN T62I240.03 V.00	INVERTER 17" T62I240.03 06L1	19.AR501.002
BOARDS		INVERTER BOARD SUMIDA TWS-458-124 MS	INVERTER 17" TWS-458-124 MS	19.AUA01.002
BOARDS		INVERTER BOARD YEC YNV-W06C	INVERTER 17" YNV-W06C	19.AUA01.001
CABLES		LCD/CAMERA CABLE	C.A. LCD CABLE CCD CP2 MEC	50.ATR01.003
CABLES		LCD/CAMERA CABLE	C.A. LCD CABLE CCD CP2 WS	50.ATR01.003
CABLES		LCD/CAMERA CABLE	C.A. LCD CABLE CCD CP2 HL	50.ATR01.003
CABLES		LCD/CAMERA CABLE	C.A. LCD CABLE CCD CP2 HT	50.ATR01.003
CAMERA		CAMERA 0.3M SUYIN CN0314-SN30-OV03-1	CAMERA 0.3M CN0314-SN30-OV03-1	57.TQ901.001
CAMERA		CAMERA 0.3M BISON BN30V407-030 OV772	CAMERA 0.3M BN30V407-030 OV772	57.AU401.001

CATEGORY	No.	PART NAME	DESCRIPTION	ACER OEM PURCHASE NO
CASE/COVER/BRACKET ASSEMBLY		LCD BRACKET W/ HINGE RIGHT	HINGE LCD R CP2 LH	33.ATR01.004
CASE/COVER/BRACKET ASSEMBLY		LCD BRACKET W/ HINGE RIGHT	HINGE LCD R CP2 Szs	33.ATR01.004
CASE/COVER/BRACKET ASSEMBLY		LCD BRACKET W/ HINGE LEFT	HINGE LCD L CP2 LH	33.ATR01.005
CASE/COVER/BRACKET ASSEMBLY		LCD BRACKET W/ HINGE LEFT	HINGE LCD L CP2 Szs	33.ATR01.005
CASE/COVER/BRACKET ASSEMBLY		LCD COVER 15.6" W/ANTENNA*3	ASSY LCD PANEL CP2	60.ATR01.006
CASE/COVER/BRACKET ASSEMBLY		LCD BEZEL 15.6" W/CAMERA HOLE	ASSY LCD BEZEL CP2	60.ATR01.004
LCD		LCD AUO 15.6" WXGA GLARE AUO B156XW01 V0 LF 220NIT 8MS	LCD 15.6"WXGA AU B156XW01 V0 G	LK.15605.001
LCD		LCD AUO 15.6" WXGA GLARE AUO B156XW01 V0 1A LF 220NIT 8MS 500:1	LCD 15.6"WXGA AU B156XW01 V0 G	LK.15605.002
LCD		LCD AUO 15.6" WXGA GLARE LG LP156WH1-TLA1LF 220NIT 8MS 400:1	LCD 15.6"WXGA LG LP156WH1-TLA1	LK.15608.001
LCD		LCD AUO 15.6" WXGA GLARE CMO N156B3-L02 LF 220NIT 8MS	LCD 15.6"WXGA CMO N156B3-L02 G	LK.1560D.001
MAINBOARD		MAINBOARD AS5735 INTEL G45 ICH9 UNIZION 3.3V AU W/O 1394 LF W/ RTC BATTERY&MODEM	CP2 GM45 MB 08219-1 W/O C/D D	MB.AU901.001
BOARDS		MODEM BOARD FOXCONN DELPHI-AM5 V2H 1.5_3.3V AUS T60M951.36	MODEM MDC 1.5_3.3V LSI AUS T60	FX.22500.023
MEMORY		SODIMM 1GB DDRII667 SAMSUNG M470T2864QZ3-CE6 LF	SODIMM 1G M470T2864QZ3-CE6	KN.1GB0B.016
MEMORY		SODIMM 1GB DDRII667 NANYA NT1GT64UH8D0FN-3C LF (0.07U)	SODIMM 1G NT1GT64UH8D0FN-3C	KN.1GB03.026
MEMORY		SODIMM 1GB DDRII667 ELPIDA EBE11UE6ACUA-6E-E	DIMM 1GB EBE11UE6ACUA-6E-E	KN.1GB09.008
MEMORY		SODIMM 1GB DDRII667 HYNIX HYMP112S64CP6-Y5 LF	SODIMM 1G HYMP112S64CP6-Y5	KN.1GB0G.012

CATEGORY	No.	PART NAME	DESCRIPTION	ACER OEM PURCHASE NO
MEMORY		SODIMM 1GB DDRII667 A-DATA HYOPE1A0834Z LF	SODIMM 1G HYOPE1A0834Z	KN.1GB0C.005
MEMORY		SODIMM 2GB DDRII667 SAMSUNG M470T5663QZ3- CE6 LF	SODIMM 2G M470T5663QZ3-CE6	KN.2GB0B.003
MEMORY		SODIMM 2GB DDRII667 NANYA NT2GT64U8HD0BN -3C LF (0.07U)	SODIMM 2G NT2GT64U8HD0BN-3C	KN.2GB03.011
MEMORY		SODIMM 2GB DDRII667 HYNIX HYMP125S64CP8- Y5 LF	SODIMM 2G HYMP125S64CP8-Y5	KN.2GB0G.004
MEMORY		SODIMM 2GB DDRII667 A-DATA HYOPE1B163BZ LF	SODIMM 2G HYOPE1B163BZ	KN.2GB0C.001
MISCELLANEOUS		NAME PLATE AS5735	NAMEPLATE U-CASE CP2 AS5735	40.AU501.001
MISCELLANEOUS		LOGO PLATE FOR LCD PANEL	LBL ACER LOGO CNP 7533ADHESIVE	47.AUE01.002
MISCELLANEOUS		LCD SCREW RUBBER	RUB BEZEL CIRCLE EIGER	47.AU401.001
SCREWS		SCREW	SCRW DIMM COVER STEEL NAGANO-1	86.00A02.140
SCREWS		SCREW	ISO M2.5X6(H=0.7~0.8MM)	86.00E12.536
SCREWS		SCREW	SCREW M2.5*L8 NYLOK CR3+	86.00E12.536
SCREWS		SCREW	SCREW MACH PAN NYLOK M2.5*10 NI	86.1A553.100
SCREWS		SCREW	SCREW M2-3	86.9A522.3R0
SCREWS		SCREW	SCREW M3X4(86.9A524.4R0)	86.9A524.4R0
SCREWS		SCREW	SCRW M2*4 WAFER NI	86.9A552.4R0



# Model Definition and Configuration

## Aspire 5235/5535 Series

Please click the clip icon below for model definition and configuration.



# Test Compatible Components

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This computer's compatibility is tested and verified by Acer's internal testing department. All of its system functions are tested under Windows® XP Home, Windows® XP Pro environment.

Refer to the following lists for components, adapter cards, and peripherals which have passed these tests. Regarding configuration, combination and test procedures, please refer to the Aspire 5535/5235 series Compatibility Test Report released by the Acer Mobile System Testing Department.

# Microsoft® Windows® Vista Environment Test

Item	Specification
<b>CRT Port Test</b>	
CRT Monitor	Acer 211c 21", ViewSonic G220F, ViewSonic PF790 19"
LCD Monitor	Acer FP751 17" TFT LCD, Acer AL1521, Acer AL1721, ViewSonic VD201b, Westinghouse W37G, HP LP2065, HP S9500
Projector	Dell 3300MP
<b>USB Port Test</b>	
USB Keyboard/Mouse	Microsoft Natural Keyboard Pro Dell USB Keyboard Logicool USB Mouse (OWCM-USB) Logitech USB Wheel Mouse Logitech First Wheel Mouse Dell by Logitech Dell Internet Navigator Keyboard Dell Smart Card Keyboard HP USB Optical Austin Mouse Belkin Miniglow Optical USB Mouse HP USB Optical Mouse (RB129AA)
USB Speaker/Joystick	Aiwa Multimedia Digital Speaker (SC-UC78) Panasonic USB Speaker EAB-MPC57USB
USB Storage Drive	Iomega USB Zip 250MB Transcend 80G HDD Plextor DVD+R/RW LG DVD+R/RW Sony DVD+R/RW
USB Camera	Intel Easy PC Camera (A20953-001) Orange Micro USB 2.0 Web Cam
USB HUB and Others	A TEN UH-204 IOGEAR 4-Port Hub Corega CG-WLUSBST11
USB Printer/Scanner	HP 450WBT Deskjet Printer
USB Flash Drive	Sony Memory Key 128MB Sony Micro Vault Pro USD-5G IBM 128MB Memory Key IBM 512MB Memory Key Apacer Handy Drive Apacer The USB Flash Drive 256MB
USB ODD	Logitec CDRW+DVDROM combo LG DVD+R/RW Sony DVD+R/RW
1394 Camera	Sony DV-TRV10
Access Point 802.11a	Intel Pro/Wireless 5000 NetGear HE 102
Access Point 802.11g	D-Link Building Networks People WiFi Certified a/b/g Wireless 108AG
Access Point 802.11n	Belkin N1MIMO Wireless Router High Performance wireless 802.11n
Bluetooth Device	Sony Ericsson Wireless Headset Sony Ericsson T610 X Bridge Bluetooth Access Point BT300

Item	Specification
<b>PCMCIA Test</b>	
LAN/Modem Card	TDK CardBus Ethernet 10/100 32-Bit CBE-10/100BTX
Storage Card	Hitachi Microdrive 4G
1394 Card	Buffalo 1394 Interface Cardbus (IFC-ILCB/DV)
USB2.0 Card	IBM EtherJet CardBus Adapter 10/100
Wireless Lan Card (Not recommended for wireless ready model)	Cisco Wireless LAN Card 802.11a NETGEAR Wireless LAN card 802.11a
ISDN Card	Toshiba Type B for Bluetooth 128K ISDN Card
GPRS Card	Vodafone QL1ACC-21581 3G/GPRS card Sony Ericsson GC83 GPRS card Sony Ericsson GC89 GPRS card
<b>ExpressCard Test</b>	
Express Card	Abcom 5-in-1 Adapter ExpressCard Reader Abcom GigaLan ExpressCard Sunix ECF2400 2 Ports 1394A ExpressCard
<b>Memory Card Test (SD/MS/MMC/SM/CF/Microdrive/XD)</b>	
SD Card	Apacer 128/256MB SanDisk 256MB Apacer 2GB (150x Hi-Speed) KINGMAX 1GB (66x Hi-Speed) SanDisk 1GB RiDATA 4GB SD PRO Memory Card
MS Card	Sony 512 MS PRO Lexar 512MB MS PRO Lexar 1GB MS PRO Sony 2GB MS PRO
MMC Card	SanDisk 32MB Transcend 64/128MB Transcend 256MB SanDisk RS-MMC 128MB PQI RS-MMC 256MB Transcend 512MB A-DATA Turbo 200X 2GB MMC Card
XD Card	Apacer 256/512MB SanDisk 2GB Olympus 512MB
CF Card	Apacer 256/512 SanDisk 2GB



# Online Support Information

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This section describes online technical support services available to help you repair your Acer Systems.

If you are a distributor, dealer, ASP or TPM, please refer your technical queries to your local Acer branch office. Acer Branch Offices and Regional Business Units may access our website. However some information sources will require a user i.d. and password. These can be obtained directly from Acer CSD Taiwan.

Acer's Website offers you convenient and valuable support resources whenever you need them.

In the Technical Information section you can download information on all of Acer's Notebook, Desktop and Server models including:

- Service guides for all models
- User's manuals
- Training materials
- Bios updates
- Software utilities
- Spare parts lists
- TABs (Technical Announcement Bulletin)

For these purposes, we have included an Acrobat File to facilitate the problem-free downloading of our technical material.

Also contained on this website are:

- Detailed information on Acer's International Traveller's Warranty (ITW)
- Returned material authorization procedures
- An overview of all the support services we offer, accompanied by a list of telephone, fax and email contacts for all your technical queries.

We are always looking for ways to optimize and improve our services, so if you have any suggestions or comments, please do not hesitate to communicate these to us.



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